

DMC 1000 Digital Media Center

OWNER'S MANUAL

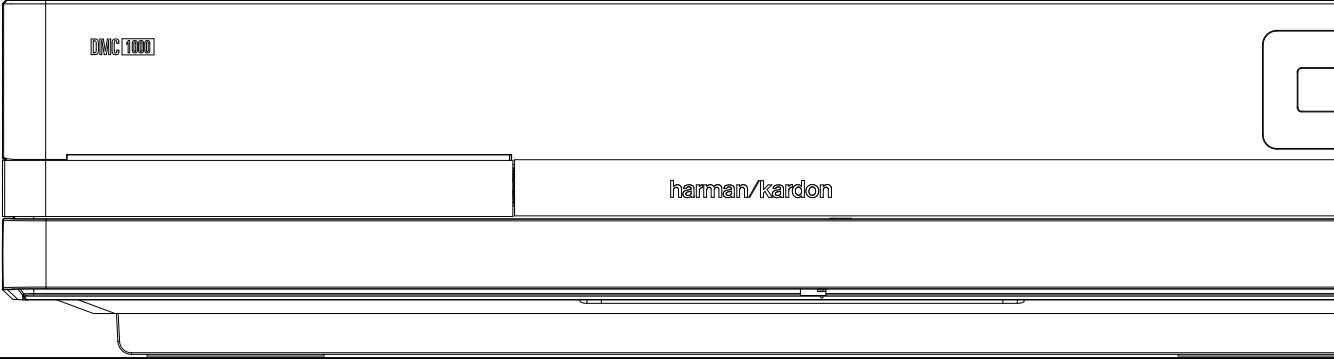


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Declaration of Conformity



We, Harman Consumer Group, Inc.
2, Route de Tours
72500 Château-du-Loir,
FRANCE

declare in own responsibility, that the product described in this owner's manual is in compliance with technical standards:

EN 55013:2001

EN 55020:2002

EN 61000-3-2:2000

EN 61000-3-3:1995+A1:2001

EN 60065:2002

Jurjen Amsterdam
Harman Consumer Group, Inc.
12/07

NOTE: This player is designed and manufactured for compatibility with Region Management Information that is encoded on most DVD discs. This player is designed only for

playback of discs with Region Code 2, or for discs that do not contain Region Code information. If there is any other Region Code on a disc, that disc will not play on the DVD.



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Introduction

Thank you for choosing the Harman Kardon DMC 1000

The DMC 1000 merges a high-end DVD player, including upscaling to 1080p with an HDMI™ output, with a media server capable of storing up to 60,000 songs on its 250Gb hard drive. Simultaneous playback of different tracks is possible in up to four zones, or you may link any or all of the zones to each other.

Thanks to Gracenote® MusicID,®* all content recorded from a CD to the DMC 1000's hard drive is identified by album name, artist and genre, with additional information to show the title of each track. Even better, for most popular albums, the DMC 1000 will display the cover art when connected to the Internet. The content is automatically organized by the identification fields and by the cover, and you may select it and program playlists to suit any mood or occasion. The graphical presentation of system content is available in both high-definition and standard-definition outputs, for crisp, easy-to-read displays on any video screen.

To enable you to get the maximum quality from DVDs, the DVD is equipped with the latest in design techniques, including advanced 10-bit video digital-to-analog converters (DAC) and Video (composite), S-Video and RGB video (RGB via SCART) outputs, to ensure that you get all the quality inherent in today's DVD medium. For optimum playback of NTSC and PAL DVD with compatible high-definition display devices, DVD is equipped with progressive component video outputs.

When used with an HDMI-compatible audio/video receiver and video display, the program quality is preserved.

By passing an uncompressed signal, degradation is virtually nonexistent. And the single-cable connection eliminates the problem of wire management.

If you have not yet upgraded to an HDMI video display, you may still enjoy pristine picture quality with the DMC 1000's precision video DACs, which output a Y/Pr/Pb progressive-scan component signal and composite and S-video. Thus, no matter what type of video display used, you will see images that are the closest thing to the original film or performance this side of your local theater.

When playing audio CDs, the playback quality is state-of-the-art, matching that of the finest players available.

In addition to DVD and CD playback, the DMC 1000 offers audio and still-image playback from both solid-state media cards and USB drives. You can even record analog sources such as your old tapes, cassettes and even vinyl records (with an optional, external phono preamp) to store virtually any audio content for instant playback. And the DMC 1000 allows content to be transferred from the hard drive to the memory cards or a USB drive, or even a recordable CD. This flexibility lets

you take your music with you in a wide range of portable players, or in your car.

Additional features of the DMC 1000 include iPod audio playback through Harman Kardon's optional The Bridge accessory, with charging and navigation available to any zone in your system. System control options include the unit's backlit remote, optional external IR sensor/receivers, RS-232-based control for popular home automation systems, custom-programmed home network control and even wireless control through a Windows Mobile®-based PDA when an optional wireless bridge is connected.

If you have additional questions about this product or its installation or operation that are not answered in this manual, please contact your dealer, as he is your best source of local information.

- **Plays a Wide Range of Video and Audio Formats, Including DVD-Video Discs, VCD, Standard CD Audio Discs, CD-R/RW, DVD-R/RW, DVD+R/RW, Audio Discs and MP3 Discs**
- **DVD playback upscaled to 1080p with HDMI 1.1 output for single-wire connections**
- **Front- and rear panel USB input for playing compatible music or image files from portable devices and for recording music files**
- **Automatically records from CD to internal Media Library (250GB HDD, equal to 60,000 songs)**
- **Streams audio to up to four independent zones simultaneously, allowing different areas of the home to enjoy unique programs**
- **GraceNote music recognition service* for identification of album name, artist and genre, as well as displaying cover art**
- **Plays audio and video files from, and records from a CD to, solid-state media cards or USB drives**
- **High-quality video reproduction with pixel-by-pixel processing, progressive scan output and 3/2 pull-down reconstruction**
- **High-Quality Video Playback 10-Bit DACs, Progressive Scan and Component Video Outputs**
- **Dolby Digital and DTS Data Signal Output Through Both Optical and Coaxial Digital Audio Connections**
- **Audiophile-Grade Output DACs for the Finest Audio reproduction**
- **Easy-to-Use On-Screen Navigation System**
- **Playback of MP3 and Windows® WMA Audio Discs and JPEG image files**
- **Parental Lock Controls Prevent Unauthorized Viewing of Restricted**

Movies

- **Extensive Programming Capability for Audio and Video Discs**
- **Multiple Options for Language, Soundtrack and Subtitle Selection**
- **Multiple-Angle Capabilities With Specially Encoded DVD Discs**
- **Backlit, Ergonomically Designed Remote Control**

READ THIS BEFORE OPERATING YOUR UNIT

Install this DVD-Player in a well ventilated, cool, dry, clean place with at least 10 cm on the top, 10 cm on the left and right, and 10 cm at the back – away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.

Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:

- Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
- Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.

Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

Install this unit near the AC outlet and where the AC power plug can be reached easily.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

* Music recognition technology and related data are provided by Gracenote. Gracenote is the industry standard in music recognition technology and related content delivery. For more information, visit www.gracenote.com.

Terminology

Terminology

Since they share some of the characteristics and technology of CD players, many of the terms and operational concepts used in a DVD player are similar to what you may be familiar with from CD players and changers, or older video disc formats such as Laser Disc. However, if this is your first DVD product, some of the terms used to describe the features of a DVD player may be unfamiliar. The following explanations should solve some of the mysteries of DVD, and help you to enjoy all the power and flexibility of the DVD format and the DVD.

With the arrival of DVD, disc data capacity has increased dramatically. On a DVD Video disc most of this capacity is taken up by MPEG 2 video and the multichannel movie soundtrack in Dolby Digital and/or DTS. This information is compressed.

Aspect Ratio: This is a description of the width of a video image in relation to its height. A conventional video screen is four units wide for every three units of height, that's why the ratio is called "4:3". Newer wide aspect ratio video displays are 16 units wide for every nine units of height, making them more like the screen in a movie theater. The program material on a DVD may be recorded in either format and, in addition, you may configure the DVD to play back in either format, depending on the features recorded on a disc.

Media Library: The Media Library refers to the content stored on the DMC 1000's internal hard-disc drive. It contains all of the content that you have transferred to the DMC 1000, including copies of audio CDs, captures of audio streams from the Auxiliary Analog Audio Inputs, and MP3 audio and JPEG image files transferred from memory cards, discs or USB drives. The Media Library automatically organizes the content so that you may view it by track name, album, artist, genre, cover art (when available) or playlists that you have created. When a multizone system has been connected, each zone may access different content stored in the Media Library. When connected to other properly programmed devices in the home using the Network Jack or the RS-232 Port, the Media Library may be used as a server, allowing you to enjoy content throughout your home.

Multizone: A multizone system is used to distribute audio to various rooms in the house so that the occupants of each room may independently choose different program material. The DMC 1000 permits up to four different zones to stream audio simultaneously. Multizone control is usually set up by the custom installer, using either control devices connected to a home network, or devices connected to the DMC 1000's RS-232 port.

Server: A server is a computer device with a large amount of storage that delivers content to other devices. The DMC 1000 may be accessed as a server from a home network when appropriate devices are connected. When placed in Server Mode, the DMC 1000 may still be used as a server, even though its four zones are inactive.

Zone: A zone is a section of a multizone system in which all loudspeakers in the zone play the same source program. By connecting the DMC 1000's audio outputs for a specific zone to a multichannel amplifier, you may include a number of loudspeakers in a variety of room locations within the zone. Example: A four-channel amplifier connected to the Zone 2 Outputs may power a pair of speakers in the living room and a stereo ceiling speaker in the connected dining room, so that you and your guests may enjoy the same program anywhere within the zone.

Component Video: This form of video signal eliminates many of the artifacts of traditional composite video signals by splitting the signal into a separate luminance channel (the "Y" signal channel) and two color-difference signals (the Pr and Pb signal channels). With a component video connection, you will see greater picture resolution and eliminate many picture imperfections such as the moiré patterns often seen on check-patterned cloth. However, in order to benefit from component video, you must have a video display with Y/Pr/Pb component video inputs. Do not connect the component video outputs of the DMC 1000 to the standard composite or S-video inputs of a TV or recorder.

HDCP (High-Bandwidth Digital Content Protection): HDCP is the specification for protecting digitally encoded content from unauthorized copying when it is transmitted from a DVD player (or other video source) to a video display using HDMI or DVI connections. In order to take advantage of the high-resolution output of the DMC 1000 via its HDMI output, your display must be HDCP-compliant. Virtually all displays with HDMI inputs are HDCP-compliant, but not all DVI-equipped displays are. If you are using the DMC 1000 with an optional HDMI-to-DVI cable or adapter, check the owner's manual for your display to determine whether it is HDCP-compliant.

HDMI™ (High-Definition Multimedia Interface™): HDMI is a serial-bus form of communication between the DVD player and the video display or audio/video receiver. With 5Gbps of bandwidth, it is capable of passing uncompressed digital audio and high-definition digital video using a single cable. With HDMI, the DMC 1000 is capable of outputting high-resolution (720p or 1080p) video and 5.1-channel Dolby Digital or DTS digital audio, with the convenience of just a single cable connection.

JPEG Files: JPEG stands for the Joint Photographic Experts Group, which developed a standard for compressing still images, such as photographs. JPEG files may be created on a personal computer by importing images from a digital camera, or scanning printed photographs. These files may be burned onto a compact disc. The DMC 1000 is capable of recognizing JPEG files and enabling you to view them on your video screen.

Title: For a DVD, a title is defined as an entire movie or program. There can be as many chapters within a title as the producers decide to include. Most discs include only one title, but some may have more than one, to give you a "Double Feature" presentation.

Chapter: DVD programs are divided into chapters and titles. Chapters are the sub-sections programmed into a single title on a disc. Chapters may be compared to the individual tracks on an audio CD.

Terminology

RGB Video: This is a new form of video signal that eliminates many of the artifacts of traditional composite video signals by splitting the signal into the three fundamental colors Red, Green and Blue (RGB). With an RGB connection (via SCART), you will see greater picture resolution and eliminate many picture imperfections such as the moiré patterns often seen on checkered patterned cloths. However, in order to benefit from RGB video, you must have a video display with an RGB compatible SCART input.

Progressive Scan: Due to the immense data storage capacity of DVD, images are nowadays stored progressively (intact, rather than interlaced). This allow all of the lines in each frame (odd and even) to be shown at the same time. DMC 1000 comes with true progressive scan video output resulting in a 40% greater light output than a conventional TV and a stunningly detailed, high definition image with absence of visible scanlines and motion artifacts.

WMA Files: WMA (Windows Media® Audio) is an audio compression format that was developed by the Microsoft® Corporation for use with its Windows Media Player. WMA files can be even smaller in size than MP3 files, while maintaining similar quality. The DMC 1000 is among those DVD players capable of playing discs containing WMA files. Note that Windows Media Player uses other file formats; however, the DMC 1000 is only capable of playing files that end in the ".wma" extension. See page 27 for more information on WMA file support.

Multiple Angle: DVDs have the capability to show up to four different views of the same scene in a program. When a disc is encoded with multiple-angle information, pressing the Angle button will enable you to switch between these different views. Note that at present, few discs take advantage of this capability and, when they do, the multiple-angle technology may only be present for short periods of time within the disc. Producers will usually insert some sort of icon or graphic in the picture to alert you to the availability of multiple viewing angles.

Reading: This is a message that you will see after you've loaded the disc and the tray has closed. It refers to the fact that the player must first examine the contents of the disc to see if it is a CD or DVD, and then extract the information about the type of material on the disc, such as languages, aspect ratios, subtitles, number of titles and more. The slight delay while the contents of the disc are read is normal.

Resume: The operation of the Stop Button on the DVD works differently from what you are used to on CD players. On a traditional CD player, when you press the Stop button, the unit does just that: it stops playback. On a CD player, when you press the start button again, the disc starts from the beginning. With the DVD, however, you have two options when playing DVD discs. Pressing Stop once will stop playback, but it actually puts the unit in the Resume mode. This means that you can turn the machine off and, when you press play the next time, the disc will resume or continue from the point on the disc where the Stop button was pressed. This is helpful if you are watching a movie and must interrupt your viewing session but wish to pick up where you left off. Pressing the Stop button twice will stop the machine in a traditional manner and, when the disc is played again, it will start from the beginning.

In resume mode, the cover of the DVD will be displayed, if available. Otherwise, the Harman Kardon screen will appear.

Features

High quality video

- High Definition Multimedia Interface (HDMI) for a single wire, digital connection to your HD-Ready screen.
- Advanced sophisticated 10-bit MPEG-2 video decoding circuits.
- Direct RGB output via SCART (selectable) for optimum video performance. SCART connector also configurable for Composite Video output.
- Pure PAL with NTSC disc due to true NTSC/PAL conversion.
- Dual-layer compatibility for extended play DVD.
- Progressive Scan component video outputs (NTSC and PAL)
- Playback of JPEG image files

High quality digital audio

- By connecting a DTS (Digital Theater Systems) or a Dolby Digital decoder, you can enjoy high quality 5.1 digital surround sound from DTS or Dolby Digital discs.
- With linear PCM audio at 16-24 bits and 44-96 kHz (also on digital output, see table page 16), audio quality exceeding that of CD becomes possible.
- Optical and coaxial digital audio output.

Inputs

- Memory Card Slot 1: SD/MMC, Memory Stick
- Memory Card Slot 2: Compact Flash
- USB: Flash drive, client devices only
- Analog Audio: 2-channel
- Remote Control IR

Outputs

- Analog Audio:
Zone 1 (main zone): 6-channel (RCA jacks)
Zones 2, 3 and 4: 2-channels per zone (RCA jacks)
- Remote Control IR
- Digital audio: Coaxial and optical
- Digital Audio/Video: HDMI
- Analog Video: Composite, S-video and component, Scart (RGB)

Data and Control Ports

- Front- and rear-panel USB jacks for flash drives and external USB hard drives (client only, FAT or FAT32 formats only)
 - Proprietary connection for iPod charging, audio* playback and navigation through Harman Kardon's The Bridge (sold separately)
 - RS-232 port for bidirectional system control
 - RJ45 Ethernet jack for connection to broadband network (required for cover art)
 - Remote control IR input and output
- * Requires compatible iPod.

Memory Cards

- Slot 1 accepts Secure Digital (SD), Multimedia Card (MMC) and Memory Stick (compatible with Magic Gate) cards. Other card types may be used with a compatible adapter, but are not guaranteed to be recognized by the DMC 1000.
- Slot 2 accepts Compact Flash I (CF) cards, or cards using a Compact Flash 1-compatible adapter.
- Cards with more than 1GB memory may not work correctly.
- Video formats supported: MPEG-2 digital video files.

Recording Capabilities

- Automatically records audio CDs to Media Library (hard-disc drive)
- Recording sources: Media Library, disc player, memory cards, USB device, analog audio via rear-panel Auxiliary Analog Audio Inputs
- Recording destinations:
 - Media Library (from any source)
 - Data CD-R/RW disc, Memory Card installed in Card Slot 1 or 2 or USB device (only from playlist programmed in Media Library)
- Recording speeds: CDs: 16x, AUX: 1x only
- Recording quality: lossless (.wav), best (MP3: 320kb/sec), high (MP3: 256kb/sec), medium (MP3: 192kb/sec), basic (MP3: 128kb/sec)
- Recorded format: data files – original format; analog audio – .wav files; audio CDs – format and sampling rate determined by recording quality setting

Many convenient features

- On-Screen Menu Icons for disc information or player information and access to many major functions of this unit.
- Subtitles may be displayed in one of numerous languages*.
- The multi-angle function allows you to choose the viewing angle of scenes which were shot from a number of different angles (Limited to DVD's recorded with multiple camera angles.)
- Multiple options for dialog language and soundtrack selection (limited to DVD's recorded with multiple dialog languages or soundtracks).
- Intuitive menu operating system.
- 4 step Zoom (off, x1, x2, x3) play and pause.
- Still-image rotation in 90-degree increments
- Thumbnail still-image menu
- User-selectable slideshow pace: slow, medium, fast
- Backlit, ergonomically designed remote control.
- Future software upgrades accessible via Internet. (See information below.)

* The number of languages recorded depends on the software.

Compatible with CD as well as DVD

- The DMC 1000 will play any conventional Audio CD or recordable (CD-R) or erasable CD (CD-RW), MP3, WMA (v9) or any VCD or DVD/Video with the region code 0 or 2.

Disc formats supported by this player

The unit can play the following disc formats (8 cm and 12 cm size):

- DVD
- DVD-R
- DVD-RW
- DVD+R
- DVD+RW
- CD
- CD-R
- CD-RW
- VCD
- WMA (v9)

NOTE: Due to differences in the format of certain discs, it is possible that some discs may include a mix of features that are not compatible with the DMC 1000. Similarly, although the DMC 1000 is capable of a wide range of features, not all discs include every capability of the DMC 1000 system. For example, although the DMC 1000 is compatible with multi-angle discs, that feature is only possible when the disc is specially encoded for multiple angle play. In addition, the DMC 1000 is capable of playing back both Dolby Digital and DTS soundtracks, but the number and types of tracks available will vary from disc to disc. To make certain that a specific feature or soundtrack option is available, please check the options noted on the disc jacket.

Features

- Playback capability for CD-R, CD-RW, WMA, JPEG, MP3, VCD/SVCD, DVD-R, DVD+R, DVD-RW and DVD+RW discs may vary due to variations in the quality of the disc and the recorder used to create the disc.
- The DMC 1000 is compatible with most discs recorded with files encoded using MP3 or Windows Media 8, as well as JPEG still images. However, note that variations in the encoder or codec used and the bit rate of the encoding may affect the DMC 1000's ability to play back a specific disc. As a result, we cannot guarantee complete compatibility with all encoders and versions of the codecs. For best results, we recommend that MP3 files be encoded at bit rates ranging between 32kbps and 320kbps. WMA files should be encoded at bit rates between 64kbps and 320kbps. Although the DMC 1000 is capable of playing some WMA 9 files, not all features of version 9 are supported. JPEG files should contain no more than 5 megapixels, and the file size should be no larger than 5Mb.

The DMC 1000 will NOT play the following:

- DVD discs with a Region Code other than 2
- DVD-ROM data discs
- DVD-RAM discs
- DVD-Audio discs
- SACD(TM)-discs
- CD-I discs
- CD-G discs
- SVCD discs
- Kodak Photo CD™ discs (Kodak Picture CD discs, available to consumers, may be viewed using the DMC 1000).
- Discs intended for use in video game consoles.
- Discs recorded in the "VR" mode or at any speed other than "SP".
- High-definition optical discs such as WMVHD, HD-DVD and Blu-ray.

Memory Card Compatibility

The following types of memory cards may be used with the DMC 1000:



The DMC 1000 will play most recordable memory cards, but we cannot guarantee complete playback compatibility due to the wide variation in recorders and blank media. We cannot guarantee playback compatibility with cards having a memory capacity greater than 1 gigabyte.

- Both Secure Digital (SD) and MMC (Multimedia Card) memory cards may be used in Card Slot 1. The smaller miniSD and microSD cards may be used in Card Slot 1, but require an adapter (not included).
- Memory Stick cards may also be used in Card Slot 1. Original Memory Stick cards are compatible as is, but an adapter (not included) is required for the smaller Memory Stick Duo cards.
- xD-Picture Card may be used in Card Slot 1.
- Compact Flash I cards may be used in Card Slot 2. Compact Flash II cards and microdrives are not compatible with the DMC 1000.
- Card Slot 1 accepts only SD, MMC and Memory Stick cards. Card Slot 2 accepts only Compact Flash I cards. Do not attempt to install a card in a slot other than the one designated for its card type.
- Cards with memory capacity greater than 8 gigabyte are not recommended for use with the DMC 1000.

Card Slot 1

Gently insert an SD, MMC or Memory Stick card, label-side up, pushing it all the way in until it clicks. Remove the card by gently pressing it in again until it unlatches, then you may pull it out of the slot.

Card Slot 2

Gently insert a Compact Flash I card, label-side up, pushing it all the way until it is firmly seated in the slot. Remove the card by pulling it out of the slot.

USB Device Compatibility

Client USB devices, such as flash drives and most external or some portable hard disc drives, may be connected to the DMC 1000's front or rear panel's USB port.

Many recent-model still cameras may also be connected directly to the DMC 1000 via USB. In general, cameras or other USB devices that are compatible with both Windows® and Macintosh OS computers may also be used with the DMC 1000.

Do not connect a personal computer directly to the DMC 1000. Due to their software design, the iPod, most other USB peripheral devices and accessories – such as card readers, keyboards and pointing devices – and software-specific digital media players are not compatible with the USB ports on the DMC 1000, even when placed in disc mode. To enjoy audio materials stored on your compatible iPod, dock it in The Bridge (optional, and available from your Harman Kardon dealer).

Gently insert the connector end of your USB device into the USB Port, being careful to align the device's plastic tongue to slide into the gap underneath the port's plastic tongue. Remove the device by pulling it out of the port.

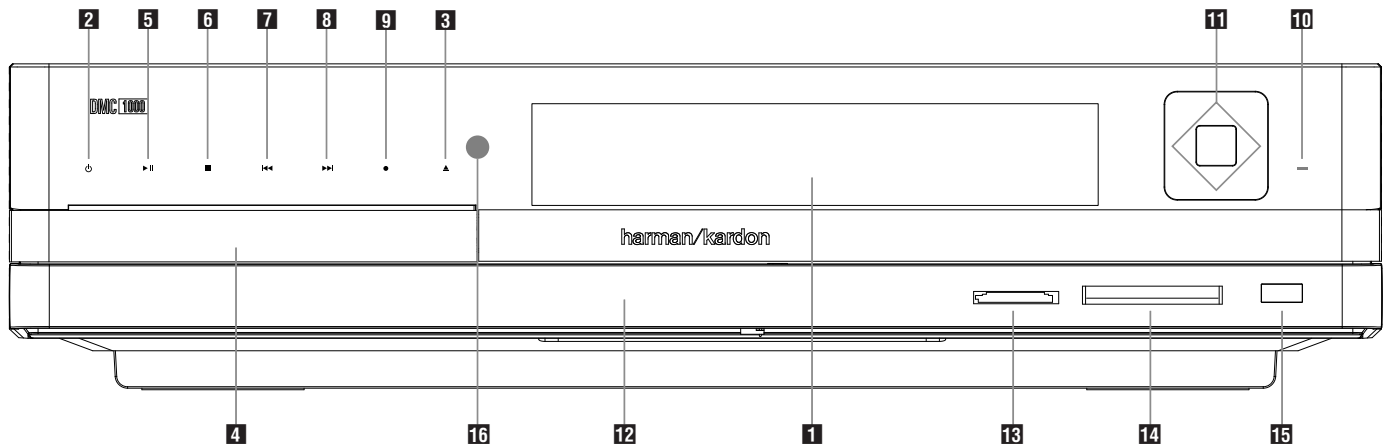
Upgradeability via Internet

The "firmware" controlling the functionality of the Harman Kardon DMC 1000 is fully upgradeable. In the event of future improvements to its operations and features, it will be possible to download firmware upgrades from www.harmankardon.com/International/. All you have to do is create a CD-R with the data and insert it in the DMC 1000 for an automatic upgrade.

Packing List

- 1 Harman Kardon DMC 1000 Player
- 1 Remote control
- 2 AAA batteries
- 1 HDMI cable
- 1 owner's manual
- 1 Power cord.

Front Panel Controls



- 1** Main Information Display
- 2** Power On/Off (Standby)
- 3** Open/Close
- 4** Disc Drawer
- 5** Play/Pause
- 6** Stop

- 7** Skip/Search (Previous)
- 8** Skip/Search (Next)
- 9** Record
- 10** Menu
- 11** Navigation Buttons
- 12** Front Panel Door

- 13** Card Slot 1
- 14** Card Slot 2
- 15** USB Port
- 16** Remote IR Sensor

IMPORTANT NOTE: The DMC 1000's front-panel controls use advanced touch-sensitive technology. To use the front panel, place a finger over any of the illuminated icons. A gentle tap is all that is necessary. Wait a few seconds for the DMC 1000 to process each command. To remove fingerprints, wipe the front panel with a dry microfiber cloth.

Power: When the DMC 1000 is connected to an AC power source and the rear-panel Master Power Switch is on, this control will indicate one of four power states:

- **Full-Off Mode (dim blue)** – The DMC 1000, including its hard-disc drive, is fully powered down.
- **Sleep (Standby) Mode (amber)** – The DMC 1000 will not respond to any commands other than to power on.
- **Server Mode (amber)** – The DMC 1000 may be controlled via the RS-232 Port or the Network Connection, but the on-screen menu system is off.
- **Full-Power Mode (bright blue)** – The DMC 1000 operates normally.

The description of each mode and the DMC 1000's response to the power controls is shown in Table A7 in the Appendix.

1 Main Information Display: This display delivers messages and status indications to help you operate the DMC 1000 player.

2 Power On/Off (Standby): Press the button once to turn the DMC 1000 player on, press it again to put the unit in the Standby mode.

3 Open/Close: Press this button to open or close the Disc Tray.

4 Disc Drawer.

5 Play/Pause: Press to initiate playback or to resume playback after Pause has been pressed. Press this button to momentarily pause playback. To resume playback, press the button again. If a DVD is playing, action will freeze and a still picture will be displayed when the button is pressed.

6 Stop: Press this button once to place the disc in the Resume mode, which means that playback will stop, but as long as the tray is not opened or the disc changed, DVD playback will continue from the same point on the disc when the Play Button is pressed again. Resume will also work if the unit was turned off. To stop a disc and have play start from the beginning, press the button twice.

7 Skip/Search (Previous): Press this button to move backward through the music tracks on a CD disc or the chapters on a DVD disc. Keep the button pressed to search backwards at one of the available speeds.

8 Skip/Search (Next): Press to move forward through the music tracks on a CD or the chapters on a DVD disc. Keep the button pressed to search forwards at one of the available speeds.

9 Record: When an audio CD is loaded, or the Analog Audio Inputs are selected as the source, press this button to view the Record tab of the on-screen menu. Pressing this button does not begin the recording.

NOTE: It is not possible to record from one of the memory cards or the USB device to any other media or to the USB device. It is also not possible to transfer image or video files. However, an audio signal is always available at the Analog Audio Outputs. You may make analog recordings from any source by connecting an analog audio recorder to the rear-panel Analog Audio Outputs.

10 Menu: Press to activate the on-screen menu system, or to navigate back up one level in the menu system.

NOTE: It is not possible to select a new source while the current source is playing or even while it is paused. Press the Stop Button before selecting a new source.

Front Panel Controls

11 Navigation and Enter Buttons: Use these buttons to navigate the on-screen menus, and press the Enter Button to select an item.

12 Front-Panel Door: Open this door to access the two Card Slots and the front-panel USB Port. To open it, gently press on the triangle in the center of the door until it unlatches; the door will drop down. To close the door, remove all media, then press the door closed at the same center location until you hear the latch click. To avoid damaging the door, do not open or close it by grabbing the edges.

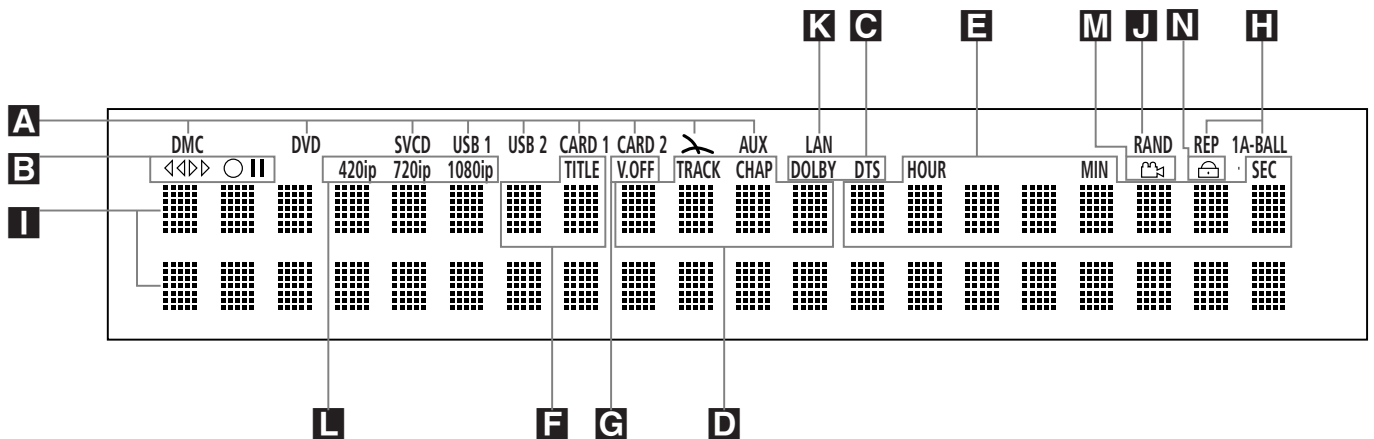
13 Card Slot 1: Insert an SD, MMC or Memory Stick memory card into this slot by gently pushing it all the way in until it clicks. The slot also accommodates miniSD, microSD and Memory Stick Duo cards when used with the appropriate adapter, available in most electronics and computer stores. Remove a card from this slot by gently pushing it in until it unlatches, then pulling it all the way out of the slot.

14 Card Slot 2: Insert a Compact Flash I memory card into this slot by gently pushing it all the way in until it is firmly seated in the slot. Remove it by pulling it all the way out of the slot.

15 USB Port: Insert a USB client device's connector into this port, being careful to correctly align the device's plastic tongue with the gap. Do not connect a computer to this port.

16 Remote IR Sensor: This sensor receives infrared commands from the remote control. Make sure that it is not blocked, although an optional IR sensor such as the Harman Kardon HE 1000 may be connected to serve as an external sensor when the unit is located in a different room, installed behind cabinet doors or when the sensor is otherwise blocked. For best results, always point your remote control at the DMC 1000's front panel.

Front Panel Information Display



A Source/Disc Type Indicators

B Playback-Mode Indicators

C Audio Bitstream Indicators

D Chapter/Track Number Indicators

E Time Indicators

F Title Indicators

G V-OFF Indicator

H Repeat Indicators

I Message Area

J Random Indicator

K Network

L Video Output Indicators

M Angle Indicator

N Parental Lock Indicator

A Source Indicators: One of the Disc-Type Indicators DMC [the Media Library], DVD, VCD, USB 1 [front], USB 2 [back], Card 1 [SD, MMC, Memory Stick, xD-Picture Card], Card 2 [CF], The Bridge or AUX will light to indicate the current media source. During a recording both the source and destination media indicators will light.

Disc-Type Indicators: The DVD, CD, VCD or SVCD indicator will light to show the type of disc currently being played.

B Playback-Mode Indicators: These indicators light to show the current playback mode:

▶ Lights when a disc is playing in the normal mode

▶▶ Lights when the disc is in the Fast Search Forward mode. The on-screen banner display indicates the selected speed (x2, x4, x8, x16)

|| Lights when the disc is paused.

◀◀ Lights when the disc is in the Fast Search Reverse mode. The on-screen banner display indicates the selected speed (x2, x4, x8, x16)

C Audio Bitstream Indicators: When a Dolby® Digital, DTS® or linear PCM digital audio signal is present on the disc, one of these indicators will light.

D Chapter/Track Number Indicators: When a DVD disc is playing, these two positions in the display will show the current chapter. When a CD disc is playing they will show the current track number.

E Time Indicators: These positions in the indicator will show the running time of a DVD in play. When a CD is playing, these indicators will show the current track time, time remaining in the current track, or the total remaining time on the disc.

NOTE: The Indicators **D E F** will also display text messages about the DVD's status, including **L O A D I N G** when a disc is loading, **P O W E R O F F** when the unit is turned off, and **D I S C E R R O R** when a disc not compatible with the DVD is put into the play position.

F Title Indicators: These two positions in the display will show the current title number when a DVD disc is playing.

G V-OFF Indicator: This indicator lights when the unit's video output has been turned off by pressing the V-OFF button on the remote control.

NOTE: The Video Off command will not affect the HDMI Output because it may be in use for audio. Avoid leaving the SETUP MENU on screen for longer than a minute or two when using the HDMI Output, as the screen saver will not operate on the SETUP MENUS and there is a danger of "burning in" the image on plasma or CRT displays.

H Repeat Indicators: These indicators light when any of the Repeat functions are in use.

I Message Area: Various messages appear in this two-line area. During media playback, the track count and time are displayed on the upper line, while identifying information scrolls on the lower line, depending on the media type.

J Random Indicator: This indicator lights when the unit is in the Random Play mode.

K Network: This indicator lights when the RJ45 jack is connected to a live network.

Front Panel Information Display

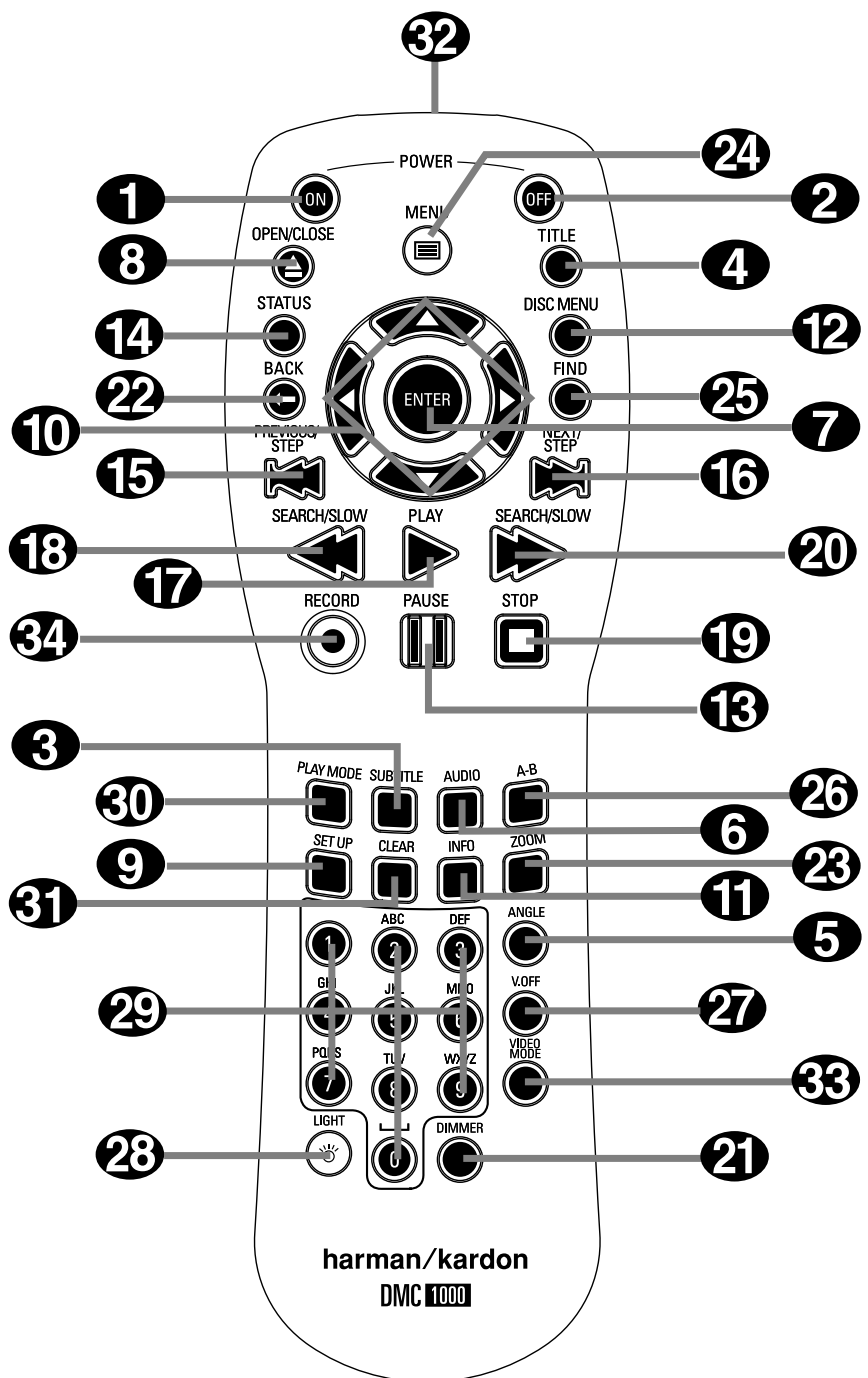
L Video Output Indicators: Either the 576i or 576p indicator will light to indicate whether the Component Video Outputs are in progressive scan mode. When the Composite or S-Video Outputs are in use, this indicator will always indicate the default 576i (interlaced scan) setting, even if you attempt to change the Output Resolution setting in the Video Setup menu to a higher video resolution. When the HDMI Output is in use, its video resolution will be indicated. The HDMI Output will upscale source materials to the higher resolution, as indicated in the VIDEO SETUP menu (explained in the Initial Setup section). You may change the Video Out Resolution setting to a lower resolution to improve picture quality using the VIDEO SETUP menu. As you select a specific HDMI Output video resolution and the DMC 1000 successfully determines that the video display is capable of handling that resolution, its indicator will light and will appear briefly in the Message Display and on screen.

M Angle Indicator: This indicator blinks when alternative viewing angles are available on the DVD currently playing.

N Parental Lock Indicator: This indicator lights when the parental-lock system is engaged in order to prevent anyone from changing the rating level without a code.

Remote Control Functions

- 1 POWER ON
- 2 POWER OFF
- 3 SUBTITLE
- 4 TITLE
- 5 ANGLE
- 6 AUDIO
- 7 ENTER
- 8 OPEN/CLOSE
- 9 SETUP
- 10 ARROWS
- 11 INFO
- 12 DISC MENU
- 13 PAUSE
- 14 STATUS
- 15 SKIP/STEP (PREVIOUS)
- 16 SKIP/STEP (NEXT)
- 17 PLAY
- 18 SEARCH/SLOW REVERSE
- 19 STOP
- 20 SEARCH/SLOW FORWARD
- 21 DIMMER
- 22 BACK
- 23 ZOOM
- 24 MENU
- 25 FIND
- 26 A-B Repeat
- 27 V.OFF
- 28 LIGHT
- 29 NUMERIC KEYS
- 30 PLAY MODE
- 31 CLEAR
- 32 IR EMITTER
- 33 VIDEO MODE
- 34 RECORD



1 POWER ON: Turns on the player when it is in standby mode (Harman Kardon logo appears on screen).

2 POWER OFF: Turns off the player to standby mode.

3 SUBTITLE: When a DVD is playing, press to select a subtitle language or to turn subtitles off.

Note: Due to the variations in how DVD discs are authored, the subtitle languages displayed by the DMC 1000 may not accurately reflect the actual languages available on the disc. It is recommended that subtitles be selected using the disc's menu.

4 TITLE: When a disc is playing, press to make the player go back to the first section of the disc.

5 ANGLE: Press to access various camera angles on a DVD (If the DVD contains multiple camera angles) or to rotate JPEG images.

6 AUDIO: Press to access various audio languages on a DVD (If the DVD contains multiple audio streams).

7 ENTER: Press this button to activate a setting or option

8 OPEN/CLOSE: Press to open or close the disc tray.

9 SETUP: Press this button to use the DMC 1000's on-screen menu system to adjust the player's configuration settings.

10 ARROW buttons (◀/▶/▲/▼): Use to move the cursor in the OSD. When the Zoom function is used with still images, use these buttons to explore the enlarged image. While viewing a still image, press the ▶ Button to rotate the image 90° clockwise, or the ◀ Button to rotate it 90° counterclockwise.

11 INFO: Press for detailed informations on the disc playing

Remote Control Functions

12 DISC MENU: Displays the actual DVD Disc Menu on the TV screen in play mode. When playing discs with JPEG images, pressing this button will access the thumbnails.

13 PAUSE: Freezes a picture (with DVD/VCD) and pauses the playback signal (CD) when a disc is playing. Press again for normal playback.

14 STATUS: Press while a disc is playing to view banner display. Use the ARROW buttons to move through the different features in the Banner Display.

15 SKIP/STEP (Previous): Press to go to beginning of current track. Press again quickly to go to beginning of previous track. After pressing the PAUSE button, each press of this button will move the image in reverse frame by frame.

16 SKIP/STEP (Next): Press to go to beginning of next track. After pressing the PAUSE button, each press of this button will move the image forwards frame by frame.

17 PLAY: Begins to play disc (closes disc tray first, if it is open.)

18 SEARCH/SLOW (REV): Allows you to search in reverse through a disc while it is in play mode. Each time you press this button, the search speed changes as indicated by a number of arrows on the right top of your screen. After pressing the PAUSE button, each press of this button will change the slow down speed indicated by a number of arrows in the right top of the screen.

19 STOP: Stops playing a disc. When a disc is playing, if you press STOP and PLAY, the disc will resume play, i.e. it will start from the same point on the disc where the unit was stopped. If you press STOP twice and the PLAY button, the disc will start play from the beginning.

20 SEARCH/SLOW (FWD): Allows you to search forward through a disc while it is in play mode. Each time you press this button, the search speed changes as indicated by a number of arrows on the right top of your screen. After pressing the PAUSE button, each press of this button will change the slow down speed as indicated by a number of arrows in the right top of the screen.

21 DIMMER: Press to change the brightness of the front panel display or to turn the display off completely in the following order: FULL BRIGHTNESS ◀ HALF BRIGHTNESS ◀ OFF ◀ FULL BRIGHTNESS

22 BACK: Press this button while viewing the DMC 1000's Setup menus or Status Display to exit a drop down menu without making a selection. It has no effect on a disc's menus.

23 ZOOM: When a DVD or VCD is playing, press this button to zoom the picture so that it is enlarged. There are 4 steps to the zoom function, each progressively larger. Press through each of the zoom stages to return to a normal picture.

24 Menu: Press to display the main menu for media playback and control.

25 Find: When browsing content from the Media Library, press to search for any audio track stored on the system's hard-disc drive. When the Find Track box opens, use the Numeric Keys to enter the name of the desired track (see Numeric Keys description). When a DVD is playing, press this button to display a dialog box that allows you to directly select a group, title, track or chapter as appropriate to the disc. With the correct cell in the dialog box highlighted, use the Numeric Keys to enter the section of the disc from which you would like playback to begin (it is not necessary to press the Enter Button). The disc will automatically jump to that section. You may also use the function to begin playback from a specific time point in the track, chapter or file, or on the disc (DVDs and CDs), sometimes called Time Search. With the Time cell highlighted, use the Numeric Keys to enter up to six digits that indicate the time from which you would like playback to start. If you enter fewer than six digits, press the Enter Button to complete the entry, and the disc will immediately jump to that point.

26 A-B: Press to select section A-B and to play repeatedly.

27 V.OFF: Press to turn off video output for improved performance from audio-only discs. Press again to restore video output.

28 LIGHT: Press to illuminate remote controller.

29 NUMERIC KEYS: Select numbers by pressing these buttons. While managing the Media Library, these buttons may also be used to enter letters and punctuation when naming playlists or content. A character-entry dialog box will appear to guide you, as shown in Figure 35 on page 28. You may use the ◀/▶/▲/▼ Navigation Buttons to highlight the desired character key and press the Enter Button repeatedly until the desired character is displayed in the text bar at the top of the character-entry dialog box. You may find it easier to press the corresponding Numeric Key to directly select characters. Each press of a Numeric Key cycles through the upper- and lowercase letters or symbols shown on the remote and on screen.

Use the alphabetic keys to jump to desired areas of the Media Library content. Example: While displaying the Media Library organized by artist, press any letter key to jump to the first artist whose name begins with that letter.

30 Play Mode: Press this button while a disc is playing to display the Play Mode dialog box, which allows you to program Random or Repeat playback and play lists.

31 CLEAR: Press to remove the Banner menu from the screen.

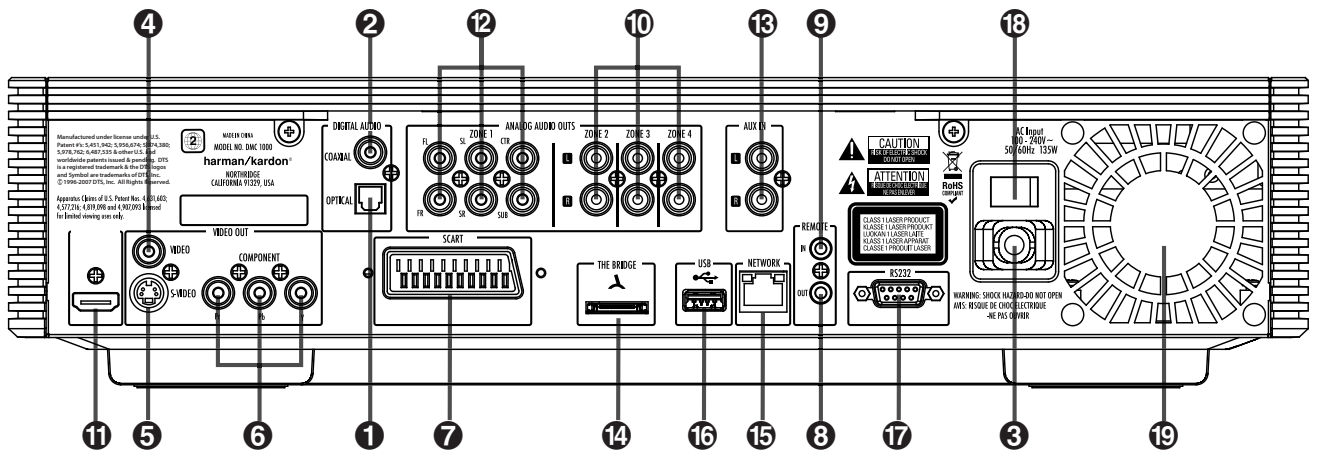
32 IR EMITTER: This small, clear button-like device sends the IR commands from the remote control to the DMC 1000. To ensure proper performance of the remote control, be sure to point it toward the unit and do not cover it with your fingers when sending remote commands.

33 Video Mode: Press to cycle through the available video output settings. If you inadvertently change the video setting in the on-screen menu system and the picture is lost or scrambled, press this button to return to a setting compatible with your video display.

34 Record: Press this button to open a menu that allows you to record content from one media source to another.

- Audio CDs are automatically recorded to the Media Library when they are inserted.
- Audio sources connected to the Auxiliary Analog Audio Inputs may only be recorded to the Media Library. You may later transfer that content from a playlist to a memory card, a recordable CD or a USB drive.
- To copy recordings from the Media Library to a memory card, a USB drive or a CD-R/RW disc, first create a playlist of the desired content. If the content was originally imported to the Media Library from a memory card or USB device, the DMC 1000 automatically created a playlist at that time.
- When using the pull-down menus to select a recording source ("From") and a destination ("To") only those sources with available content will appear. The Auxiliary Analog Audio Inputs will always appear, because the DMC 1000 is not capable of detecting the presence of an audio signal.

Rear Panel Connections



- 1 Optical Digital Output
- 2 Coaxial Digital Output
- 3 AC Power Cord
- 4 Composite Video Output
- 5 S-Video Output
- 6 Component Video Outputs
- 7 SCART TV Output
- 8 Remote Control Output
- 9 Remote Control Input
- 10 Zone 2/3/4 Analog Audio Outputs
- 11 HDMI Output
- 12 Zone 1 Analog Audio Outputs
- 13 Analog Audio Input
- 14 The Bridge Connection
- 15 Network Jack
- 16 USB Port
- 17 RS-232 Port
- 18 Master Power Switch
- 19 Fan Vent

1 Optical Digital Output: Connect this jack to the optical digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.

2 Coaxial Digital Output: Connect this jack to the coaxial digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.

NOTE: The coaxial digital output should only be connected to a digital input. Even though it is the same RCA-type connector as standard analog audio connections, DO NOT connect it to a conventional analog input jack.

Connect either the **Optical Digital Audio Output 1** or the **Coaxial Digital Audio Output 2** to a corresponding digital audio input on your receiver or processor, but not both.

3 AC Power Cord: Connect this plug to an AC outlet. If the outlet is controlled by a switch, make certain that it is in the ON position.

4 Composite Video Output: Connect this jack to the video input on a television or video projector, or to a video input on an A/V receiver or processor if you are using that type of device for video input switching.

5 S-Video Output: Connect this jack to the S-Video input on a television or video projector, or to an S-Video input on an A/V receiver or processor if you are using that type of device for S-Video input switching.

6 Component Video Outputs: These outputs carry the component video signals for connection to display monitors with component video inputs. For standard analog TV's or projectors with inputs marked Y/Pr/Pb or Y/Cr/Cb, connect these outputs to the corresponding inputs. If you have a high-definition television or projector that is compatible with high scan rate progressive video, connect these jacks to the "HD Component" inputs. Note that if you are using a progressive scan display device, then "Progressive" must be selected in the Video Set-up Menu in order to take advantage of the progressive scan circuitry. See page 22 for more information on progressive scan video.

IMPORTANT: These jacks should NOT be connected to standard composite video inputs.

7 SCART OUT (TV): If your TV has a SCART socket, you can connect a SCART cable to your TV and to your DMC 1000 Player for improved video quality. The SCART cable carries both audio and video. You can select Composite Video or RGB video for that SCART connector's video output signal.

8 Remote Control Output: Connect this jack to the infrared (IR) input jack of another compatible Harman Kardon remote controlled product to have the built-in Remote Sensor on the DMC 1000 provide IR signals to other compatible products.

9 Remote Control Input: Connect the output of a remote infrared sensor, or the remote control output of another compatible Harman Kardon product, to this jack. This will enable the remote control to operate even when the front panel **Remote Sensor** on the DMC 1000 is blocked. This jack may also be used with compatible IR remote control-based automation systems.

10 Zone 2/3/4 Analog Audio Outputs: When the DMC 1000 is being used for multi-zone operation, connect these jacks to the separate Zone inputs on your multiroom controller or hub, or the amplifiers feeding the multizone system.

11 HDMI Output: If you have an HDMI-compatible receiver or video display device, connect this output to an HDMI input on the receiver or video display for the highest-quality uncompressed digital audio and video available. Even if your receiver is not capable of processing audio in the HDMI format, you may still experience the superb reproduction of HDMI video.

If your video display has a DVI input, you may use an optional HDMI-to-DVI cable or adapter for the connection to the display. In all cases, the video display must be HDCP-compliant in order to use the HDMI output. For best results, we do not recommend HDMI connections in excess of 3 meters.

The following audio formats may be output via the HDMI connection:

Audio CD – 2-Channel PCM or 5.1-channel DTS
DVD-Video – Up to 5.1-channel Dolby Digital or DTS

12 Zone 1 Analog Audio Outputs: If you are not using either HDMI or a separate optical or coaxial digital audio connection for the Zone 1 (Main Room) audio, connect these jacks to the matching inputs on your A/V receiver or surround processor. Connect the left- and right-channel jacks to the receiver to monitor an analog source connected to the Auxiliary Inputs during recording.

Note: You'll find more details about all Audio/Video connections under Setup and Connections on the following pages.

13 Analog Audio Inputs: Connect these jacks to an audio output on a source player like a tape deck or record player for analog audio recording.

14 The Bridge Connection: To use an iPod* as a source for the DMC 1000, enabling you to select and listen to audio content and charge the iPod, connect an optional Harman Kardon The Bridge here.

*For iPod models with a dock connector.

15 Network Jack: Connect this standard RJ45 jack to a broadband network (Ethernet) connection so that you may take full advantage of Gracenote MusicID, including obtaining cover art for stored albums, updating both the database of album information and the system software, and connecting the DMC 1000 to a home network. When the network connection is "live," the lights on either side of the jack will flash to indicate network activity.

16 USB Port: This USB port is primarily intended to connect an optional, external USB hard drive to back up the DMC 1000's Media Library, although it may be used for content playback. DO NOT connect a computer or other host device directly to the DMC 1000.

17 RS-232 Port: Connect the DMC 1000 to compatible system control and automation products, using a standard RS-232 cable. As programming a control and automation system is a complex task, requiring specific information and training, we recommend that you consult a trained installer.

18 Master Power Switch: Push this switch to the line position (I) to apply power to the DMC 1000, placing it in the "Full-Off" power mode. When the unit will not be used for an extended period of time, or whenever it is necessary to remove the unit from the AC power lines, push the switch to the circle position (O) to turn the unit off.

19 Fan Vent: This area contains vents used by the DMC 1000's fans to cool the system. Maintain a clearance of at least three inches to the nearest surface, to avoid overheating the unit.

Setup and Connections

Before connecting your DMC 1000, please:

- Ensure that the power switch of this unit and other equipment to be connected is set to off before commencing connection.
- Do not block ventilation holes of any of the equipment and arrange them so that air can circulate freely.
- Read through the instructions before connecting other equipment.
- Ensure that you observe the color coding when connecting audio and video cables.

STEP ONE – Placement

Due to the heat generated by other system components, place the DMC 1000 on its own shelf rather than stacking it directly on another component. We do not recommend stacking other components on top of the DMC 1000.

STEP TWO – Connect the DMC 1000 to an A/V Receiver or Processor (Preferred)

If the receiver is HDMI-capable and HDCP-compliant, connect the HDMI Output **11** to the receiver's HDMI Input to carry both audio and video.

If the receiver has only a DVI input, use an HDMI-to-DVI adapter, and make a separate audio connection.

If the receiver does not have an HDMI or DVI input, select one video connection, in order of preference: component video **6**, S-video **5** or composite video **4**.

For non-HDMI products, a separate audio connection is also required. If available, connect either the Optical **1** or Coaxial Digital Audio Output to the corresponding input on the receiver.

The DMC 1000 is capable of outputting up to four separate analog audio streams for use in multizone systems. Zone 1 is used for the main listening room, and includes six channels.

Connect the Zone 1 Analog Audio Outputs **12** to a receiver that does not have an available digital audio input. If digital audio connections have been made to the receiver, make an additional connection from the FL and FR jacks to the receiver to monitor an analog source connected to the Auxiliary Inputs during recording.

STEP THREE – Connect Media Sources

- Auxiliary Analog Audio Inputs **13**: Connect the line-level or "Tape" outputs of an analog device to these inputs. Do not connect a turntable without a phono preamp. Contact the Harman Kardon Parts Department to purchase one.
- The Bridge **14**: Connect Harman Kardon's The Bridge (sold separately) here to enjoy content stored on a compatible iPod (not included).
- USB Devices **15/16**: Connect a compatible USB client device to either the front- or rear-panel USB Port. The front-panel port is located behind the dropdown door.

STEP FOUR – Connect the DMC 1000 to a Multizone System (Optional)

The DMC 1000 may be used with up to four zones simultaneously, with any or all zones linked to each other. Zones 2, 3 and 4 are used to distribute 2-channel audio to other locations. Zone **12/13** 1 is the main listening area. The system may be controlled remotely using the Remote IR Input, the RS-232 Port or a network connection.

Connect the Analog Audio Outputs for each zone in the system to a receiver, processor, multizone controller or amplifier.

Connect the RS-232 Port **17** to a compatible control device using a standard null modem cable or adapter.

STEP FIVE – Connect the Remote IR Input and Output

Connect the DMC 1000's Remote IR Input **9** to the compatible IR output of another product, or to an IR receiver or controller, such as the optional Harman Kardon HE 1000. When daisy-chaining devices to allow for remote control up and down the chain, connect the Remote IR Output **8** to the next product's IR input. The DMC 1000 is compatible with "stripped carrier" IR signals.

STEP SIX – Network Connection

Connect the Network Jack **15** to a router or Ethernet-compatible controller. The network connection is used by Gracenote MusicID to obtain cover art and database updates via the Internet. When the Network connection is not used, Gracenote MusicID obtains the tags from a database stored internally on the DMC 1000's hard-disc drive. To use the DMC 1000 as a server on a home network, use the Setup menu to look up the settings automatically generated when the DMC 1000 is booted, and program your home network devices accordingly.

STEP SEVEN – Plug In AC Power

To avoid possible damage from a transient power surge at plug-in, switch the Master Power Switch to the circle position (0). Plug the female end of the AC Power cord into the receptacle, and the male end into an unswitched AC outlet. Due to the DMC 1000's power requirements, do not plug it into an accessory outlet on another component.

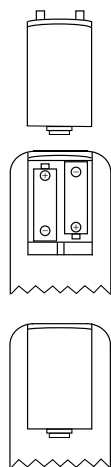
Connecting to a TV Only (Optional)

When using the DMC 1000 with a television but no audio receiver or processor, connect it as follows. Make the **Analog Audio Connection** **12** and one of the **Video Connections** (**Composite Video** **4**, **S-Video** **5**, **Component Video** **6**). If your television or video display is HDMI-capable, you only need to make the **HDMI** **11** connection, as it handles both audio and video. Remember to plug in the power cord.

Remote Control

Battery installation

Insert the batteries supplied while observing the correct (+) and (-) polarities.



Service life of batteries

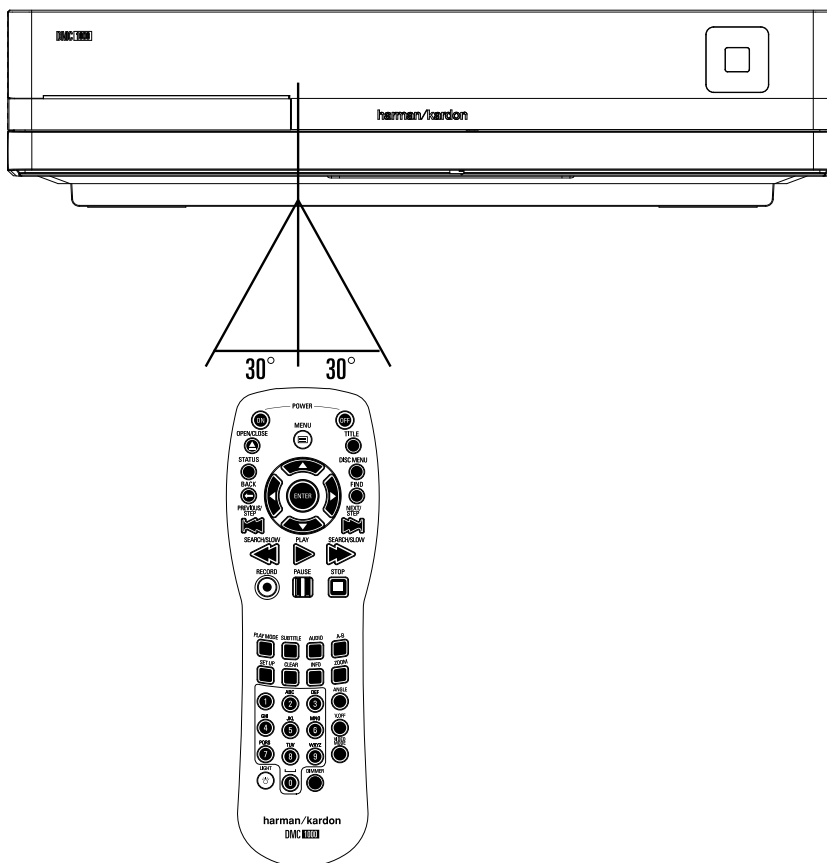
- The batteries normally last for about one year, although this depends on how often, and for what operations, the remote control is used.
- If the remote control unit fails to work even when it is operated near the player, replace the batteries.
- Use size "AAA" batteries.

Notes:

- Do not attempt to recharge, short-circuit, disassemble, heat or throw the batteries into fire.
- Do not drop, step on or otherwise impact the remote control unit. This may damage the parts or lead to malfunction.
- Do not mix old and new batteries.
- Wipe away any leakage inside the remote control unit, and install new batteries.
- If leakage should come into contact with parts of your body, wash it off thoroughly with water.
- Batteries contain chemical substances and we recommend that you dispose of them properly and in compliance with any local regulations. Do not simply throw them away but return to your dealer or special battery disposal centers.

Remote control operation range

Point the remote control unit from no more than about 7 m from the remote control sensor and within about 60 degrees of the front of the unit.



- The operating distance may vary according to the brightness of the room.

Notes:

- Do not point bright lights at the remote control sensor.
- Do not place objects between the remote control unit and the remote control sensor.
- Do not use this remote control unit while simultaneously operating the remote control unit of any other equipment.

Digital Audio Connections

Audio output from the unit's optical/coaxial digital audio output connector

Gently push the cable plug through the built-in shutter that covers the optical digital audio output and connect the cable firmly so that the configurations of both the cable and the connector match.

Disc	Sound recording format	Optical/coaxial digital audio output
DVD	Dolby Digital	Dolby Digital bitstream (2-5.1ch) or PCM (2ch, 48kHz, 16-bit)††
	Linear PCM (48/96kHz, 16/20/24-bit)	Linear PCM (2ch) (48/96kHz, 16/20/24-bit)
	DTS	Bitstream or no output*
	MPEG (2.0)	MPEG bitstream (2ch) or linear PCM (2ch, 48kHz)
VCD	MPEG-1 CD-DA	Linear PCM*
CD	Linear PCM	Linear PCM (44.1kHz sampling)
	MP3 MPEG-1 Audio Layer 3)	Linear PCM (44.1–48kHz, depending on source, if digital output format selected as "Bitstream"). (48kHz if digital output format selected as "PCM")
	WMA (Windows Media Audio)	Linear PCM (32–48kHz)

* Digital Format must be selected as "BITSTREAM" or "PCM" respectively in Menu

For your reference:

- Dolby Digital (AC-3) is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation, supporting 5.1-channel surround sound, as well as stereo (2-channel) sound, this technique enables a large quantity of sound data to be efficiently recorded on a disc.
- Linear PCM is a signal recording format used in CDs. While CDs are recorded in 44.1kHz/16 bit, DVDs are recorded in 48kHz/16 bit up to 96kHz /24 bit.
- If you have a Dolby Pro Logic Surround decoder connected to the DVD's analog AUDIO OUT connectors, thanks to the "Downmix" function of the DVD you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles encoded with Dolby Surround.
- The DVD is designed to digitally output 96kHz-PCM audio with a 96kHz sampling rate. However, some 96kHz DVD's may include copy protection codes that do not permit digital output. For full 96kHz fidelity from these discs, use the analog outputs of the DVD.

IMPORTANT: If your surround processor/D/A converter does not support 96kHz PCM audio, you must use the DVD analog outputs for full 96kHz fidelity with these discs.

Caution for the optical/coaxial digital audio outputs:

- When connecting an amplifier (with an optical/coaxial digital input) which does not contain a Dolby Digital (AC-3) or DTS decoder, be sure to select "PCM" as initial setting in the "Digital Output" menu (see also page 19).
Otherwise, any attempt to play a DVD may cause such a high level of noise that it may be harmful to your ears and damage your speakers.

- CD's can be played as they would normally be played.

Note:

- Some first generation DTS decoders which do not support DVD-DTS interface may not work properly with the DMC 1000 player.
- Dolby Digital, DTS and PCM signals are passed through the **HDMI Output** ①. Audio materials.

Notes when connecting the optical digital audio cable (optional)

- Gently push the cable plug through the built-in shutter that covers the optical digital audio output and connect the cable firmly so that the configurations of both the cable and the connector match.

Dolby Digital and DTS

Both Dolby Digital and DTS are audio formats used to record 5.1-channel audio signals onto the digital track of film. Both of these formats provide six separate channels: left, right, center, left rear, right rear, and common subwoofer. The latest 6.1-formats, Dolby Digital EX and DTS ES, even one (or two) additional "Surround Back" channel for a center between the rears.

Remember, that Dolby Digital or DTS will only play 5.1-channel sound if you've connected the optical or coaxial output of the DMC 1000 player to a DTS or Dolby Digital receiver or decoder and if the disc was recorded in the Dolby Digital or DTS format.

Playback Basics

Basic Play

Preparation

1. Switch the TV ON and select its video input connected to the DMC 1000.
2. Press POWER to turn on the unit, the DMC 1000 harman/kardon logo should appear now on the screen. If that logo appears distorted on the screen or without any color, change the appropriate settings at the Video Setting Submenu according to your TV set and to the connection used between the DMC 1000 and your TV.
3. When you see no video at all, not even the harman/kardon logo, check the setting of the video input used on your TV (most SCART inputs on TVs can be configured in the TV's menu). When you don't succeed, connect your TV with different cables to the DMC 1000, e.g. via Composite (yellow jacks) or S-Video cables, rather than per SCART to view the setup menus until all appropriate "Video menu" settings are made properly.
4. Switch on your A/V system's power, if the player has been connected to such a system.
5. Press OPEN/CLOSE to open the disc tray.
6. Place a disc on the disc tray.

Hold the disc without touching either of its surfaces, position it with the side you wish to play facing down, align it with the guides, and place it in its proper position.

- 3" (8 cm) discs or 5" (12 cm) discs can be used.
7. Press PLAY. The disc tray is automatically closed and play begins.
- When the disc tray is closed by pressing OPEN/CLOSE, play will start automatically.
 - With most DVD's, a Disc Menu appears on the screen. Select specific menu item by using ARROW buttons on the remote, then press ENTER.

Disc Playback Features

Skipping tracks or titles/chapters

To move forward or backward through the tracks on a CD or the titles or chapters on a DVD, press skip on the front panel or Previous/Next on the remote.

Fast Motion Playback/Fast Search

1. To move forward or backward through the DVD or CD disc being played at fast speed, press SEARCH on the remote. Once one of these buttons is pressed, the fast search will continue until PLAY is pressed.

There are four fast-play speeds. Each press of the SEARCH Buttons will cycle to the next speed in the following order: x2, x4, x8, x16, x32, indicated by a number of arrow indicators on the right top of the screen.

2. Press PLAY at any time to resume normal playback.

Note that there will be no audio playback during fast-forward or -reverse play of DVD discs. This is normal for DVD, as A/V receivers and surround processors cannot process the digital audio streams during fast-play modes; audio will be heard during fast-play of conventional CD's.

Freeze Frame and Frame Advance (with DVD only)

1. Press PAUSE when a DVD is playing to freeze the picture.
2. Each time you press one of the STEP (FWD or REV) buttons, the picture advances one frame.
3. Press PLAY to resume normal playback.

Slow Motion Playback (with DVD only)

1. When a DVD disc is in pause or freeze frame mode, you may move slowly forward or backward through the program being played at one of the speeds by pressing the Slow Buttons on the remote. Each press of the buttons will move to the next speed, indicated by a number of arrow indicators on the right top of the screen.
2. Press PLAY to resume normal playback.

Note that there will be no audio playback during slow-forward or -reverse play of DVD discs. This is normal for DVD, as A/V receivers and surround processors cannot process the digital audio streams during slow modes. Slow play is not available for CD.

Notes: Playback features may not be available during the opening credits of a movie. This is intended by the disc author and is not a failure of the DMC 1000.

Playback of a DVD with 96kHz/24-bit audio requires the use of circuitry normally used for other features. Accordingly, Slow Play Reverse and Step Advance features are not available with these discs.

Depending on the structure of a VCD disc, the functions Slow Reverse and Step Reverse may be prohibited or have no function and Fast Playback (Search) may not function.

System Setup

Turn On the DMC 1000

The DMC 1000 has four power states, each designed to minimize unnecessary power consumption.

The description of each mode and the DMC 1000's response to the power controls is shown in Table A7 in the Appendix.

IMPORTANT NOTE: When the HDMI Output is used, turn on the system components in reverse order, starting with the video display, then any receiver or processor, and finally turn on the DMC 1000.

The first time the system is used, turn it on as follows:

Switch the Master Power Switch to the line position (I), placing the DMC 1000 in Full-Off power mode.

The "Start DMC 1000" message will appear on the front panel, and the "Starting . . ." message will appear on screen. Allow the system a few minutes to fully start up.

The first time the DMC 1000 is turned on, the End User License Agreement (EULA) will appear. See Figure 1. The unit will not respond to any other commands until you have scrolled through the entire agreement, and accepted its terms. A copy of the complete EULA appears in the back of this manual, starting on page 37.



Figure 1 – End User Agreement

After you have accepted the EULA, the Main Menu will be displayed.

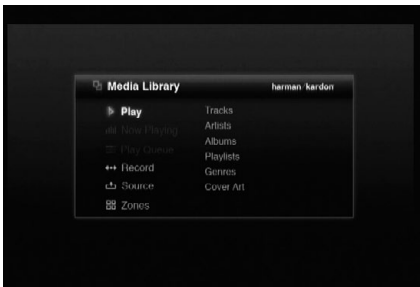


Figure 2 – Main Menu

The Main Menu is the usual starting point for each listening or viewing session.

Display the Setup Menu

The first time the system is used, the Setup Menu should be configured. After Initial Setup is completed, unless the user's requirements change, it is usually not necessary to revisit the Setup Menu. Press the Setup Button to display the Setup Menu (see Figure 3).

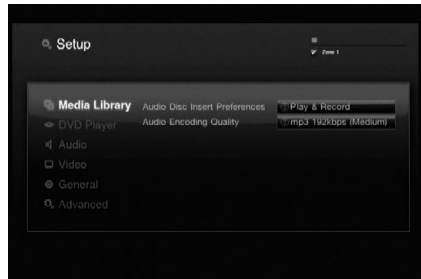


Figure 3 – Media Library Setup Menu

The Setup Menu, as with all menus on the DMC 1000, is navigated using the F/G/D/E Navigation Buttons. Press the Enter Button to select an item highlighted on screen.

There are six Setup Menus: Media Library, DVD Player, Audio, Video, General and Advanced.

Media Library Setup

The Media Library Setup Menu determines what action the DMC 1000 takes when an audio disc is loaded. Any time an audio CD is loaded, it is automatically copied at high speed to the Media Library. The DMC 1000 does not play audio CDs directly from the disc; playback is from the Media Library.

Audio Disc Insert Preferences: Select Record Only to copy the disc to the Media Library without playing it, or Play and Record to begin playback from the Media Library after recording commences.

Audio Encoding Quality: Select the format to be used for recording audio CDs to the Media Library.

- Basic (MP3: 128kb/sec)
- Medium (MP3: 192kb/sec)
- High (MP3: 256kb/sec)
- Best (MP3: 320kb/sec)
- Lossless (.wav)

DVD Player Setup

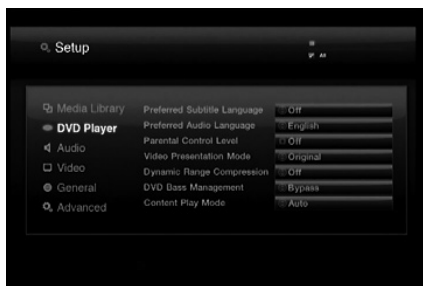


Figure 4

The DVD Player Setup menu (shown in Figure 4) contains settings that affect DVD playback. The other media sources are not affected by these settings.

The DMC 1000's Setup menu screens follow the same basic format.

Select a menu by highlighting its tab on the left side of the screen. The menu's settings will be previewed, but you will not be able to make any changes. See Figure 2. Press the Enter Button to make adjustments to the menu.

The first setting in the menu will automatically be selected. If you wish to change its value, press the Enter Button to view the available options in a dropdown menu.

Use the ▲ ▼ Buttons to highlight the desired option, and press the Enter Button to select it.

If you wish to close the dropdown menu without changing the setting, press the Back Button.

The DVD Player Setup Menu contains the following settings.

Preferred Subtitle Language: Defines your preferred subtitle language. Every time a disc will be played that contains this subtitle language, it will be shown automatically. If you do not find your preferred language in the list of options, you can select your preferred language by highlighting OTHER. Press ENTER and use the Navigation Buttons to select your preferred language from the list shown on the screen. Note that only those languages will be available that are actually on the DVD you would like to play. You can also set the preferred subtitle language to OFF. In that case no subtitles will be shown.

Preferred Audio Language: Defines your preferred audio language. Every time a disc is played that contains this audio language, it will be activated automatically. If you do not find your preferred language in the list of options, you can select your preferred language by highlighting OTHER. Press ENTER and use the Navigation Buttons to select your preferred language from the list shown on the screen. Note that only those languages will be available that are actually on the DVD you would like to play.

Parental Control: Defines a password used to control viewing of restricted programs. The five standard US rating symbols are "G" (General, level 2), "PG" (Parental Guidance, level 4), "PG13" (Parental Guidance and 13 years old, level 4), "R" (Restricted, level 6) and "NC 17" (from 17 years old, level 7). The DVD will accommodate a total of eight rating steps, as set by the DVD creators. These additional steps allow for more critical control of program playback for all audiences. Level 8: All DVDs can be played. Levels 7 to 2: DVDs for general audiences/ children can be played. Level 1: DVDs for children can be played; DVDs for adults/general audiences are prohibited. Follow the explanations on the screen to set a new password.

Video Presentation Mode: Select Original to display videos and pictures in their native aspect ratio, or Full when the DMC 1000 is connected to a 4:3 aspect ratio display.

When Full is selected, 16:9 materials will appear on 4:3 displays in "letterbox" format, with black bars at the top and bottom of the screen. On 16:9 displays, 16:9 materials will fill the screen, but 4:3 materials will appear with black or gray bars on the left and right sides of the screen.

NOTE: The DMC 1000's own menu screens are always output in widescreen (16:9) mode at a maximum resolution of 720p, depending on the display's capabilities. When viewed on a 4:3 display, the menu screens will appear in letterbox format.

Dynamic Range Compression: When playing specially encoded Dolby Digital DVDs, turn on Dynamic Range Compression to reduce the levels of louder passages while maintaining the intelligibility of dialog and softer passages. This feature is useful to avoid disturbing others while watching action-packed DVDs. This is similar to the "Night Mode" function on many DVD players and A/V receivers.

DVD Bass Management: If all six of the Zone 1 Analog Audio Outputs are connected to a receiver or processor that does not perform bass management on its 6-channel audio inputs, turn this setting on and configure the speaker settings in the Audio Setup menu.

If the receiver is capable of analog bass management, leave this setting in the default Bypass mode and configure the receiver's speaker settings. When this setting is off, the DMC 1000 speaker settings will have no effect.

Select the Stereo/LtRt setting to output a 2-channel recording, or a downmix of a surround-encoded program, through the Left- and Right-Channel jacks of the Zone 1 Analog Audio Outputs. When the Bass Management setting is set to either of the other settings, these jacks will only output the front left- and right-channel information, omitting the center and surround information.

NOTE: The Stereo setting is required when either the Digital Audio Out Format or HDMI Audio Out settings in the Audio Setup menu are set to Uncompressed (i.e., output a 2-channel PCM signal).

Content Play Mode: This setting compensates for disc authoring errors that occur when the frame rate is not properly maintained during the conversion from film to video. It only affects progressive scan display using the HDMI Output or the Component Video Outputs. Three choices are available:

- **Auto:** This is the recommended setting. The DMC 1000 analyzes the signals from the DVD, determines whether it was originally recorded on video or shot on film, and adjusts the output accordingly.
- **Film:** Choose this option for material that was originally shot on film, even though you are viewing it on video via a DVD.
- **Video:** Choose this option for material that was shot directly to video, such as concerts and sports programming.

System Setup

Audio Setup

Each setting applies to a certain type of audio output, but only for Zone 1. The audio output to Zones 2, 3 and 4 is always full-range, 2-channel analog line level.

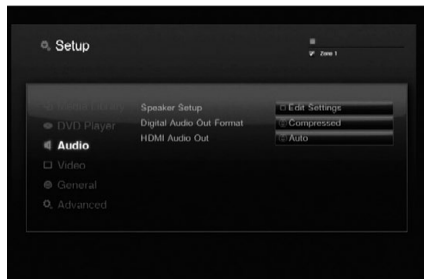


Figure 5 – Audio Setup Menu

Speaker Setup: A dialog box appears, allowing you to program the Speaker Size settings used with the Zone 1 (6-Channel) Analog Audio Outputs. The settings are dependent on the DVD Bass Management setting in the DVD Player Setup menu.

- **DVD Bass Management Bypass:** This is the default system setting, and should be used when the receiver or processor is capable of performing bass management. Configure the speaker settings on the receiver. All main speakers default to the Large (full-range) setting, and the subwoofer is on. These settings may not be changed.
- **DVD Bass Management On:** Use this setting if the receiver is not capable of performing bass management, to ensure that the low frequencies steered to each channel match the frequency-response capabilities of the speakers.
 - The default settings are Small (only frequencies of 200Hz and higher are passed) for all of the main speakers, and the subwoofer is on.
 - With the left and right speakers set to Large, the center speaker may be set to Small or None, but not Large. Change the Center and Surround settings to None for stereo mode when listening to 2-channel recordings. The subwoofer will remain on. Use this configuration when you desire the added power of a separate subwoofer for the low frequencies.
 - Change the left and right speaker setting to Small when using a speaker system consisting of small satellites and a subwoofer. The Center and Surround settings will automatically change to Small, and the Subwoofer setting will remain on; neither setting may be changed.

- **DVD Bass Management Stereo/LtRt:** Use this setting to output a 2-channel signal without a separate low-frequency channel for the subwoofer. The front left and right speakers default to the Large (full-range) setting, with the center, surround and subwoofer speakers all disabled. These settings may not be changed.

Select Save when you have finished your adjustments, or Cancel to return to the Audio Setup Menu without making any changes.

Digital Audio Out Format: If your system includes 5.1 digital audio surround decoding (Dolby Digital and/or DTS), select Compressed as the digital output. In that case all audio signals will be output with their original format. If your system only includes stereo and/or Dolby Pro Logic, select Uncompressed. Then all audio signals will be output in PCM format only (DTS will output no signal).

HDMI Audio Out: This setting determines the format of the audio output via the HDMI Output. It is dependent upon the capabilities of your receiver or video display (if the DMC 1000 is connected directly to a display). We recommend that you leave it at the Auto setting, in which case the DMC 1000 will communicate with the device it's connected to and automatically select a setting that is compatible with that device.

- **Auto:** This is the default setting, and it is recommended that you leave the HDMI Audio Out line at this setting. The DMC 1000 will automatically select the correct setting, based on the capabilities of your receiver or video display.
- **Uncompressed:** At this setting, all digital audio is decoded and output as PCM streams. For example, a DVD with a Dolby Digital soundtrack will be decoded, and 5.1 PCM streams (one per channel) will be output through the HDMI Output for playback by your receiver.
- **Compressed:** This setting may be used with receivers that are capable of decoding digital multichannel formats from the HDMI stream.
- **Off:** Use this setting if your receiver is not capable of processing the audio portion of the HDMI stream and you have made a separate digital audio connection from the DMC 1000 to the receiver. No audio will be passed to the HDMI Output.

IMPORTANT NOTE: When the HDMI Output is active for audio, the Optical and Coaxial Digital Audio Outputs are muted. If the HDMI Output is being used for video only and the S/P-DIF outputs are required for audio, turn the HDMI Audio Out setting Off.

Video Setup

The Video Setting Submenu contains the following settings. Follow the explanations in the Instruction Line on the bottom of your screen to change the settings.

These settings are usually set automatically by the DMC 1000, depending on which video output is in use. See Figure 6.

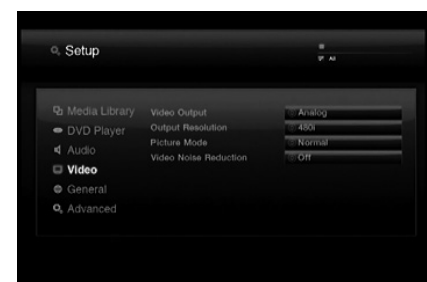


Figure 6 – Video Setup Menu

Video Output: When both the analog video outputs and the HDMI Output are connected, select the desired video output. Both HDMI and the analog video outputs are not available simultaneously. Example: The HDMI Output is connected to a display in the main listening room and the Composite Video Output is being distributed to a multizone system.

System Setup

Output Resolution: This setting may be used to change the video output resolution. It affects the Component Video Outputs and the HDMI Output, but with different allowed settings depending upon whether the HDMI Output is in use. This setting may also be changed by pressing the Video Mode Button on the remote repeatedly to cycle through the available settings options.

- **HDMI Output In Use:** With the HDMI Output connected to another device, this setting defaults to Auto, but you may change it to 576p, 720p, 1080i or 1080p. We recommend leaving the setting at Auto, in which the DMC 1000 sets the video output based on the capabilities of the device it is connected to. If you attempt to select a video output resolution that your video display is not capable of handling, such as 1080p for a display that is only 1080i-capable, you will not see a picture.

- **HDMI Output Not In Use:** When no device is connected to the HDMI Output, this setting only applies to the Component Video Outputs. Only two values are available: 576i (the default) and 576p. Select 576p only if your video display's component video inputs are capable of handling a progressive scan signal. If it isn't, you will see no picture or a distorted picture when this setting is changed to 576p. In that case, press the Video Mode Button on the remote to correct it.

Picture Mode: Select from the Normal, Vivid, Sport and Nature picture settings to optimize viewing of various types of programs. This setting is a matter of taste, and there is no incorrect setting.

Video Noise Reduction: We recommend that you leave this setting at the default "Off". If video signal noise is observed when using the analog video outputs, turn this setting on to reduce the noise and improve the picture quality.

General Setup

These general system settings should be accessed with caution. See Figure 7. If you are uncertain about the proper setting for any of these options, consult with your dealer or installer, or contact Harman Kardon Customer Service at www.harmankardon.com.

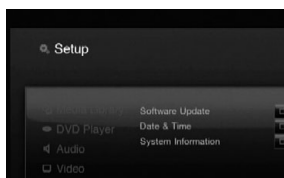


Figure 7 – General Setup Menu

Software Update: When system software updates are released, this setting will be used during the installation process. Do not make any changes here unless instructed to do so.

Date & Time: The first time the DMC 1000 is used, set the local time and date here.

System Information: This setting displays the software version number and the amount of hard-disc space available. It is informational only.

Advanced Setup

The settings shown in Figure 8 should be used with caution. If you have any doubts about whether it is appropriate to change these settings, consult with your Harman Kardon dealer or custom installer.

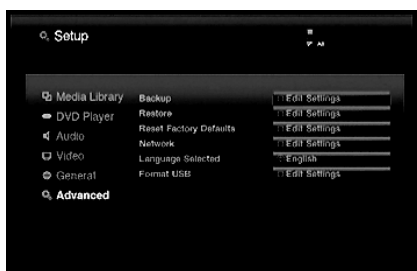


Figure 8 – Advanced Setup Menu

Backup: This setting is used to back up the system and Media Library contents to a USB storage device.

Restore: This setting is used to restore a backup copy of the system settings and Media Library contents. The existing contents of the Media Library will be erased. Use this feature only in the unlikely event that the hard-disc drive in your DMC 1000 has been replaced.

Reset Factory Defaults: This setting is used to return all of the Setup Menu settings to their factory defaults. They will then have to be reconfigured as required for your application. The contents of the Media Library are not affected by this command.

Network: When the DMC 1000 is connected to a network, the network settings are identified here. These settings may be used with other devices when the DMC 1000 is to be used as a media server as part of a home network. This feature also allows you to test the network connection to make certain that Internet access is available. Press the "9" key on the remote twice, to display the Internet Protocol (IP) address on the front panel.

Language Selected: Select the display language for the DMC 1000's menus here. Choose from the default English, or Spanish, French, German or Italian.

Format USB: This command allows you to reformat a USB device, which completely erases the contents of the drive. Exercise great caution before reformatting a drive.

Now that your DMC 1000 has been installed and configured, it's easy to enjoy your favorite audio and video programs from a variety of media, including DVDs, CDs, memory cards, USB drives and the DMC 1000's own Media Library.

DMC Basics

Turning On the DMC 1000

The DMC 1000 has four power states, each designed to minimize unnecessary power consumption.

- **Full-Off Mode (Dim Blue)** – The DMC 1000, including its hard-disc drive, is fully powered down, but is ready to be turned on using the front panel or remote control.
- **Sleep (Standby) Mode (Amber)** – The DMC 1000 will not respond to any commands other than to power on.
- **Server Mode (Amber)** – The DMC 1000 may be controlled via the RS-232 Port or the Network Connection, but the on-screen menu system is off.
- **Full-Power Mode (Bright Blue)** – The DMC 1000 operates normally.

See Table A7 in the Appendix for a description of each mode and the DMC 1000's response to the power controls.

NOTE: There is technically a fifth state of "no power," in which the power cord is unplugged and/or the rear-panel Master Power Switch is turned off in the circle position (0). However, it is unlikely you will see this situation in normal use.

Press the front-panel Power Control or remote Power On Button to turn on the DMC 1000 when the Power Indicator is dim blue or amber.

When the Power Indicator is bright blue, press the front-panel Power Control or remote Power Off Button to switch to Server Mode (Power Indicator turns amber), or press and hold either control to turn the DMC 1000 fully off (Power Indicator turns dim blue).

When the DMC 1000 is in Server Mode (Power Indicator is amber and Server Mode message is displayed), press the Power Off Button on the remote to switch to Sleep Mode (Power Indicator remains amber).

Using the DMC 1000

After turn-on, the DMC 1000 will display its Main Menu (see Figure 9). If the Media Library is loaded with content, any cover art will appear in a mosaic in the background.

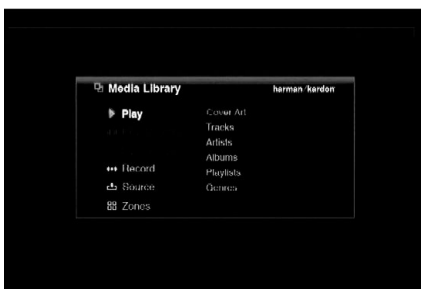


Figure 9 – Main Menu

From the Main Menu, you may play content from the Media Library or select another source for

playback. You may program a Play Queue of items for immediate playback, or a Playlist that is stored for later retrieval. Record an audio stream from a device connected to the Auxiliary Inputs, or copy a playlist to any of the portable media, including a recordable CD, a memory card or a USB drive. You may also control audio playback in up to four separate zones at a time. The DMC 1000's sophisticated yet easy-to-use on-screen menus will guide you at every stage.

Playing DVDs and CDs

With the DMC 1000 turned on, press the Open/Close Button on the front panel or remote. Gently place the disc in the tray, making sure to seat it properly. Refer to the Media Compatibility section for details on which disc types may be played in the DMC 1000. Other disc types will not play. The DMC 1000 will take a few moments to read and identify the disc.

If the disc is a DVD, it will automatically begin playing. Although we recommend using the disc's own menu system for navigation, audio track selection and subtitle language selection, see the DVD Playback section for instructions on using the DMC 1000's commands for these functions.

If the disc is an audio CD, the DMC 1000 will automatically copy it to the Media Library at high speed, displaying the progress of the recording as a percentage. The DMC 1000 is capable of playing back the recording almost as it is being made (if your unit has been set up for Play and Record operation). Once the recording is completed, you may remove the disc and continue to listen to the content as it is played from the Media Library.

When a CD or other music content is added to the Media Library, the DMC 1000 accesses Gracenote MusicID, which includes a vast online database containing identifying information for almost every commercial CD in existence, as well as cover art for the vast majority of CDs. This powerful service enhances the listening experience, as the user is able to view album, artist and track information and the cover art during playback. This information is then stored in the Media Library. A copy of the database resides in the DMC 1000 so that even when it is not connected to the Internet, the identifying information for most popular CDs (except for cover art) is retrieved and stored with the audio in the Media Library. However, for the latest and most complete version of the database, we recommend connecting the DMC 1000 to a high-speed Internet access point. Music recognition technology and related data are provided by Gracenote. Gracenote is the industry standard in music recognition technology and related content delivery. For more information, visit www.gracenote.com.

NOTE: When no cover art is available, the DMC 1000 will display a generic musical-note icon. This may occur if the DMC 1000 is not connected to the Internet, if a noncommercial disc is loaded,

or in rare instances when there is a gap in the database.

DVD Playback

The DMC 1000 supports all of the features and options of standard DVDs. However, not all discs offer each option at all times. If the "Function Prohibited" icon (Ø) appears, then you are attempting a function that is not available at that time or with that media, and it does not indicate a problem with the DMC 1000.

Disc Playback Features

Skipping tracks or titles/chapters

To move forward or backward through the tracks on a CD or the titles or chapters on a DVD, press skip on the front panel or Previous/Next on the remote.

Fast Motion Playback/Fast Search

1. To move forward or backward through the DVD or CD disc being played at fast speed, press Search on the remote. Once one of these buttons is pressed, the fast search will continue until Play is pressed.

There are four fast-play speeds. Each press of the Search Buttons will cycle to the next speed in the following order: x2, x4, x8, x16, indicated by a number of arrow indicators on the right top of the screen.

2. Press PLAY at any time to resume normal playback.

Note that there will be no audio playback during fast-forward or -reverse play of DVD discs. This is normal for DVD, as A/V receivers and surround processors cannot process the digital audio streams during fast-play modes; audio will be heard during fast-play of conventional CD's.

Freeze Frame and Frame Advance (with DVD only)

1. Press PAUSE when a DVD is playing to freeze the picture.
2. Each time you press one of the STEP (FWD or REV) buttons, the picture advances one frame.
3. Press PLAY to resume normal playback.

Slow Motion Playback (with DVD only)

1. When a DVD disc is in pause or freeze frame mode, you may move slowly forward or backward through the program being played at one of the speeds by pressing the Slow Buttons on the remote. Each press of the buttons will move to the next speed, indicated by a number of arrow indicators on the right top of the screen.

2. Press PLAY to resume normal playback.

Note that there will be no audio playback during slow-forward or -reverse play of DVD discs. This is normal for DVD, as A/V receivers and surround processors cannot process the digital audio streams during slow modes. Slow play is not available for CD.

Notes: Playback features may not be available during the opening credits of a movie. This is intended by the disc author and is not a failure of the DMC 1000.

Playback of a DVD with 96kHz/24-bit audio requires the use of circuitry normally used for other features. Accordingly, Slow Play Reverse and Step Advance features are not available with these discs.

Depending on the structure of a VCD disc, the functions Slow Reverse and Step Reverse may be prohibited or have no function and Fast Playback (Search) may not function.

Chapters and Titles

DVDs contain one or more features organized as titles. We recommend selecting titles using the disc's menu system, where they are identified by name.

Because titles can run for several hours, they are generally divided into chapters, each of which is typically no more than a few minutes long, encompassing one or more scenes. Chapter selection allows you to go straight to your favorite section of the movie, or to easily skip past sections you've already viewed. Most discs offer a chapter selection menu that includes thumbnail images for easy identification.

To select a chapter or title by number, press the Find Button on the remote to display the Find Menu. See Figure 10. Pressing any Numeric Key will also display the Find Menu, with the number shown in the Chapter cell. Press the Enter Button



Figure 10 – Find Menu

To select a title by number, navigate to the Title cell, enter the title number and press the Enter Button.

To begin play from a specific time location within the title, also known as "Time Search," navigate to the Time cell and enter the desired starting point. Press the Enter Button, and play will immediately begin at the selected time.

You may also select a title or chapter, using the Status Display.

Using the On-Screen Status Display

When a DVD is playing, you may press the **Status Button** (12) at any time to view a quick summary of the disc's playback status. The Status Bar not only gives you a snapshot of the unit's current state; it also provides an easy way to select a different title, chapter or track, or use the time search feature.



Figure 11 – Status Display

- **Title:** This displays the current title on the left, and the total number of titles on the disc on the right.
- **Chapter:** This displays the current chapter on the left, and the total number of chapters on the disc on the right.
- **Time Display:** This section of the display shows the time corresponding to the type of display indicated in the **Time Display Type**. The Time Search function enables you to start playback at any point in the program. Use the **Navigation Buttons** (10) to highlight this display, and the numbers will change to dashes. You may then use the **Numeric Keys** to enter the numbers corresponding to the time on the disc at which you wish play to commence. Press the **Enter Button** (7), and play will immediately begin at the selected time position.
- **Time Bar:** This display is a graphic representation of the time elapsed for the title being played. As the disc plays, the number of bars will increase to reflect approximately what percentage of the title has been played thus far.

Repeat Play: This setting controls whether the tracks are repeated.

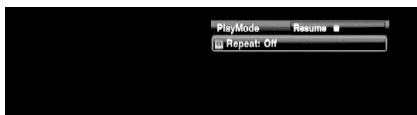


Figure 12 – Play Mode Menu

- **Track:** Repeats the track currently playing until play is manually stopped. The "Repeat" Indicators will light in the front-panel display.
- **All:** Repeats all tracks on the disc until play is manually stopped. The "Repeat" and "All" Indicators will light in the front-panel display.
- **Off:** Normal playback of the current track followed by all remaining tracks on the disc, unless the Random or Programmed play functions have been selected.

A-B Repeat Play

The Repeat A-B function allows you to select any portion of a CD and have it repeat continually until the unit is manually stopped.



Figure 13 – A-B Repeat Display

To initiate a Repeat A-B playback sequence, follow these steps while a disc is playing:

1. Press the **A-B Repeat Button** (26) on the remote when you want to choose the beginning point; the Repeat icon appears in the upper right corner of the screen, followed by **A -** to indicate the beginning of the passage to be repeated.
2. Press the **A-B Repeat Button** (26) again to choose the end point. Repeat A-B has been set, and the A-B section will be played continuously.
3. Press the **A-B Repeat Button** (26) on the remote again to cancel Repeat A-B mode.

Video Off Feature

During CD playback, some listeners may prefer to turn off the DMC 1000's video circuitry. Although the video section is electrically isolated from the audio section, some users may prefer to turn the video displays off during audio playback to prevent any possibility of interference between audio and video. You may also wish to turn the video display off if you find the menu system distracting or unnecessary during CD playback.

IMPORTANT NOTE: It is strongly recommended that plasma video display owners use the Video Off feature to avoid burn-in.

To turn the video displays off while a CD is playing, simply press the **Video Off Button** (27). Press the button again to restore the video output. The **V-Off Indicator** (G) will light to remind you that the video displays have been turned off. Note that the video output will automatically be restored each time the DMC 1000 is turned on.

Operation

Audio Playback From the Media Library

The DMC 1000's Media Library makes it easy to store all of your audio content in one place for convenient playback in your main home theater room, in three remote "zones" (if you have set up the DMC 1000 as part of a multizone system), on a device connected to a home network, or anywhere else when you transfer the content to portable media.

When you first turn on the DMC 1000, the assumption is that you will most likely want to listen to content stored in your Media Library, and the Main Menu (see Figure 14) is configured that way.

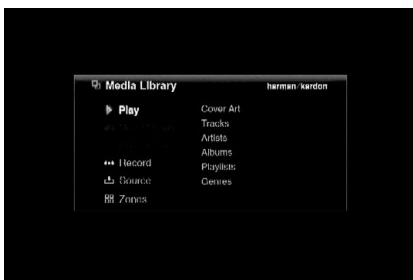


Figure 14 – Main Menu

Press the Enter Button to select the highlighted "Play" option, and the DMC 1000 will offer you a variety of sorting options. Large music collections may be easier to manage when sorted by artist or album. As shown in Figure 14, you may select from one of six possible sorts, or views, of the Media Library.

Cover Art: Displays a mosaic of album covers retrieved by Gracenote MusicID when the DMC 1000 is connected to the Internet. Cover art may be organized alphabetically by name, by artist or in the order added, starting with the most recent additions. As described below, use the ◀/▶/▲/▼ Navigation Buttons to move the "magnifying glass" to the desired album, and press the Enter Button to see the playback options.

Tracks: Displays all tracks individually in alphabetical order. The tracks may be organized alphabetically by name, artist, album or in the order added, starting with the most recent additions.

Artists: Displays all artists in alphabetical order. Select an artist and press the Enter Button to view his or her albums.

Albums: Displays all albums in alphabetical order. Select an album and press the Enter Button to display its tracks.

Playlists: Displays all playlists you have programmed.

Genres: Displays your library organized into genres. Select a genre and press the Enter Button to view all artists tagged with that genre.

Navigate to the desired sorting option and press the Enter Button to view the Media Library (see Figure 15).

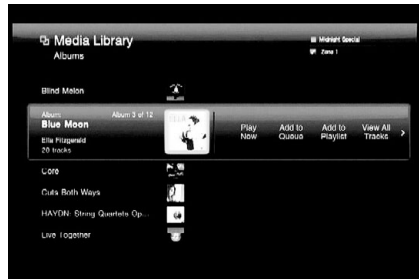


Figure 15 – Media Library

The Media Library lists the items (in this case, albums) in your collection, with the current selection highlighted by a magnifying bar. The cover art, or an icon if the cover art could not be found, is highlighted. Press the Enter Button to expand the album into a track view.

NOTE: You may have noticed that letters appear above the Numeric Keys on the remote. The DMC 1000 is capable of using alphabetic characters as well as numbers, which allows you to search the Media Library by entering the Numeric Key corresponding to the first letter of your selection. Each Numeric Key represents three letters. The first press jumps to the selections beginning with the first letter in the group, and the character-entry dialog box appears. You may enter additional letters to refine your search or change the first letter by navigating to the Clear command and repeatedly pressing the Numeric Key until the desired letter appears in the text bar. Navigate to the Done command when you have finished entering a search term. Alphanumeric entry is also used to edit content tags and to name playlists. See Figure 16.



Figure 16 – Character-Entry Dialog Box

Use the ◀/▶ Navigation Buttons to scroll through the playback options described below. The availability of each of these options and commands depends on how the Media Library is sorted.

- **Play Now:** The current selection is played immediately, replacing other content in the Play Queue. The Play Queue is a list of content in line to be played. It is saved until the DMC 1000 is powered down to Full-Off mode (dim blue).
- **Add to Queue:** The current selection is added to the end of the Play Queue, and the media currently playing continues until it is finished. The Play Queue may be accessed from the Main Menu.
- **Add to Playlist:** The current selection is added to a new or existing playlist. A dialog box will pop up, asking you to select from the existing playlists or create a new one (see Figure 17). The DMC 1000 is programmed with several empty playlists named to fit different moods or occasions, including Dance and Dinner. Up to four playlists are shown at a time. The playlists may be accessed from the Main Menu.



Figure 17 – Select a Playlist

- **View Artists:** Available when the Media Library is sorted by genre, this command displays all artists within the selected genre.
- **View Albums:** Available when the Media Library is sorted by artist, this command expands the current artist to view all of his or her albums in the library.
- **View All Tracks:** Expands the current album into a track view.
- **Open Playlist:** Available when the Media Library is sorted by playlists, this command opens the list.
- **Edit Name:** Available when the Media Library is sorted by playlists, this command allows you to rename the playlist if you no longer want to use the name selected when the playlist was created.

Operation

- **Edit Info:** This command is available for tracks and albums only. A dialog box appears, allowing you to edit the identifying information, including renaming tracks. See Figure 18. The box is slightly different when the Media Library is sorted by tracks. A character-entry dialog box appears when you select any field for editing. See Figure 16 and the note on the previous page. Select the Find Info command to activate Gracenote MusicID.



Figure 18 – Edit Info Dialog Box

- **Delete:** Select this command if you wish to remove the content from the Media Library. Be aware that the DMC 1000 does not play audio CD content directly from the disc. If you load the CD again, it will be copied to the Media Library.

Cover Art Sort

You may have noticed the cover art mosaic that appears in the background of the Main Menu when you turn on the DMC 1000. With the Main Menu on screen, select the Cover Art sorting option for the Media Library and the focus shifts to this mosaic. Use the Navigation Buttons to move the “magnifying glass” to the desired album cover, identifying the artist and album.

Press the Enter Button to display the playback options: Play, Add to Queue, Add to Playlist, View Album, Edit Info and Delete Album. Select View Album to switch to the regular Media Library view with the album expanded to view the tracks. The other playback commands function in the same way as in the Media Library view.

NOTE: When no cover art is available (e.g., if the DMC 1000 was not connected to the Internet when the CD was loaded, if the disc is noncommercial or if there is a gap in the database), the album will not appear in the Cover Art sort, although you may select it when viewing the Media Library by Tracks, Artists, Albums, Playlists or Genres. A musical note icon, such as the one shown in Figure 18, will appear in place of the missing cover art.

Data Media

The DMC 1000 recognizes media containing data files in the MP3, JPEG and WAV formats.

Load a data CD in the disc player, or insert a memory card in the appropriate card slot, or connect a USB drive to either USB Port, and the device will be available for selection as a media source in the Main Menu. See Figure 19.



Figure 19 – Source Selection

When a data source is selected, the only sorting options are Audio and Photos. Select one, and the regular Media Library will appear, except that unlike audio CDs, which are organized as albums containing individual tracks for each song, data sources are organized as folders containing individual files for each song or still image. However, navigation of the content is similar to audio. See Figure 20.

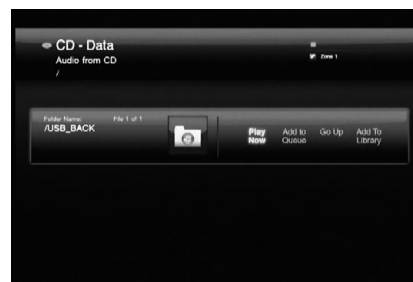


Figure 20 – Data CD

Press the Enter Button to expand a folder, or select the Go Up command to collapse it. The other commands function as usual, and the Add to Library command allows you to import the content to the Media Library for playback after the media has been removed from the DMC 1000.

The Play Queue and Playlists

The DMC 1000 allows you to program playlists that are saved for future playback, plus a play queue of items for immediate play.

The Play Queue

The Play Queue is simply a list of all items that are queued up to be played. There are two ways to add an item to the play queue:

1. Display the desired content on screen by selecting the correct source (the Media Library, a card slot, a data CD or a USB device) and selecting the audio or still-image content. Scroll to the desired content, e.g., a song track or file, use the ◀/▶ Navigation Buttons to highlight the Play Now command, and press the Enter Button. The existing Play Queue will stop and add the selected item, which will begin playing immediately. The previous Play Queue items will be deleted.
2. With the desired content on screen and the item selected, use the ◀/▶ Navigation Buttons to highlight the Add to Queue command. Press the Enter Button to add the item to the end of the Play Queue.

Operation

To view the play queue, press the Menu Button to display the Main Menu, and navigate to the Play Queue line. Press the Enter Button. The Play Queue is preserved unless the DMC 1000 is powered down to Full-Off mode (by pressing and holding the Power Off Button on the remote so that the front-panel Power Indicator turns dim blue). If the Play Queue line in the Main Menu is dimmed, the Play Queue has been erased.

The Play Queue is not available during DVD playback, or when The Bridge is the media source.

You may create playlists that are permanently saved by name for future playback.

Programming a Playlist

Playlists are not only a convenient way to store a queue of your favorite songs, but they are required to transfer audio from the Media Library to any of the portable media. See the Content Transfer section for more information.

To program a playlist, display the desired content on screen by selecting the correct source (the Media Library, a card slot, a data CD or a USB device) and selecting the audio or still-image content. Scroll to the desired content, e.g., a song track or file, use the ◀▶ Navigation Buttons to highlight the Add to Playlist command, and press the Enter Button.

A pop-up screen will prompt you to select from an existing playlist, to name a new playlist, or to select an empty prenamed playlist, such as Dance or Chill. See Figure 21. If you select one of the prenamed playlists and have already used that name, a number will be added to the end to differentiate the new playlist. The pop-up dialog box displays up to four playlists at a time. Scroll up or down to view the remaining playlists.

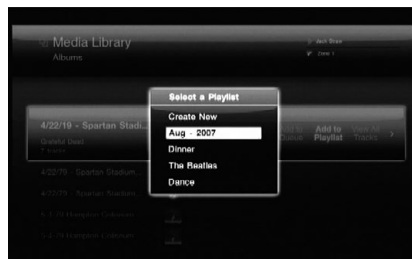


Figure 21 – Select a Playlist

Playlists may be edited by selecting the Playlist View from the Media Library. Press the Menu Button to view the Main Menu, and navigate to the Playlists view in the Media Library. Press the Enter Button, and scroll to the desired playlist. The commands function as expected:

- **Play Now:** Plays the selected playlist immediately, adding it to the Play Queue.
- **Add to Queue:** Adds the selected playlist to the end of the Play Queue.
- **Add to Playlist:** Adds the selected playlist to a new or existing playlist.
- **Open Playlist:** Opens the playlist to allow editing of individual tracks, including removing a track from the playlist, changing the track's order within the list, selecting the track for immediate play, adding the track to the Play Queue or a playlist, editing the track's identifying information or deleting the track from the Media Library.
- **Edit Name:** Opens the character-entry dialog box to rename the playlist.
- **Delete Playlist:** Deletes the playlist (but not its contents) from the Media Library.

Using The Bridge™

The Bridge is an optional dock that may be used with a compatible iPod (not included). When The Bridge is connected to its proprietary input on the DMC 1000 and the iPod is docked, you may enjoy the audio and still-image materials stored on your iPod.

When an iPod is docked in The Bridge, the IPOD FOUND message will appear on the front panel, and a banner with The Bridge icon and the Detected message will appear on screen. The iPod will be in "disc mode," and its screen will display the "OK to disconnect" message. Do not physically undock the iPod while its content is playing. However, you may select the Undock command at any time.

Select The Bridge as the media source from the Main Menu. The menu shown in Figure 22 will

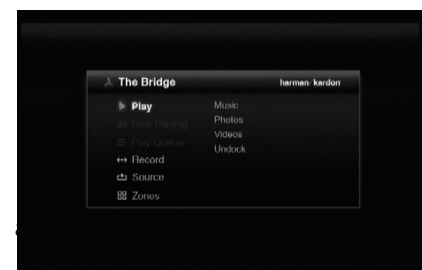


Figure 22 – The Bridge menu

Navigate the contents of the iPod in a similar manner to other data media sources. Select between the audio (music) and still-image (photo) content. When Music is selected, you may sort it using views similar to those in the iPod's own menu: Playlists, Artists, Albums, Songs, Podcasts, Genres, Composers or Audio Books.

Only three options are available for iPod content:

Play Now: Begins play of the selected item immediately. The Play Queue is erased.

Open: If an individual track is selected, it begins play immediately. If the selected item is in any other category, e.g., an artist or album, this command opens the item so you may view its contents.

Operation

Undock iPod: This command ends play of any content on the iPod and returns to the Media Library view of the Main Menu. The iPod's own menu appears on its screen. To resume playback, physically undock the iPod from The Bridge and redock it.

Press the Back Button to return to the previous menu level, similar to pressing the Menu button on the iPod itself.

You may not import content from the iPod to the Media Library, and you may not add the iPod's content to the Play Queue or a playlist. You may not record from the Media Library to an iPod docked in The Bridge. These are limitations of the iPod's design, and do not reflect a problem with the DMC 1000.

NOTE: The Bridge may not be compatible with some iPod models, particularly the iPhone and the iPod touch. To enjoy content stored on these devices, connect a cable from the device's headphone output to the DMC 1000's Auxiliary Analog Audio Inputs.

Auxiliary Analog Audio Inputs

In addition to digital media, the DMC 1000 also accommodates analog source devices, such as cassette decks and turntables, but mainly as a recording source. Connect the device to the rear-panel Auxiliary Inputs.

IMPORTANT NOTE: Do not connect a turntable directly to the DMC 1000 unless it includes an onboard phono preamp or is connected to an external phono preamp which is then plugged into the Auxiliary Inputs. Phono preamps may be available from specialty audio shops or electronics stores.

The device connected to the Auxiliary Inputs is not available for source selection in the usual manner. It is selected as a recording source, as described in the Content Transfer section, although it is possible to monitor the source without making a recording.

Content Transfer

One of the DMC 1000's most exciting features is its ability to transfer content from one type of media to another, and to store your library of music on its internal hard-disc drive.

The method for making recordings varies slightly, depending on the source media.

Audio CDs

As soon as an audio CD is loaded, the DMC 1000 begins the process of copying it to the Media Library at high speed. It displays the progress of the recording as a percentage recorded.

At the same time, the DMC 1000 automatically begins playing the copy of the CD from the Media Library, if you have programmed the DMC 1000's Setup Menu to do so.

The DMC 1000 uses Gracenote MusicID to identify the CD, tag it with the correct information and import the album cover art, if available. If the DMC 1000 is not connected to the Internet, Gracenote MusicID will tag the content using the offline database stored on the DMC 1000's hard-disc drive; however, it will not display any cover art. For homemade discs, the service will attempt to identify the content based on any tags that were created when the disc was recorded.

After the DMC 1000 has finished copying the CD to the Media Library, you may remove the disc and store it.

NOTE: The DMC 1000 initially copies the CD to .wav files. If you have adjusted the Audio Encoding Quality setting in the Media Library Setup menu to one of the MP3 formats, the DMC 1000 will then encode the .wav files as MP3 files at the specified sampling rate. If you attempt to transfer the CD from the Media Library to a memory card, recordable CD or USB drive before the encoding is completed, the files will be transferred as .wav files. Since .wav files are much larger than MP3 files, depending on your destination media, you may not have enough space to complete the transfer.

Data CDs

Data CDs are discs that contain sound and image files. They are recognized when loaded, but operation is handled differently.

To transfer the CD's content to the Media Library:

1. Select it as a playback source, and view the audio files. Still-image files may not be added to the Media Library.
2. The CD is listed as a single folder, which you may expand as usual. Select the Add to Library option to import it to the Media Library. Audio files are transferred in their original format, e.g., as MP3 files.

Auxiliary Inputs

With the analog audio device connected to the Auxiliary Inputs and the media loaded, either press the Record Button, or press the Menu Button to view the Main Menu. Scroll to the Record line and press the Enter Button.

Select "Auxiliary" from the dropdown menu at the recording source. See Figure 23.

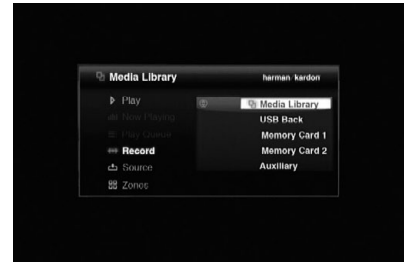


Figure 23 – Select a Recording Source

Next, select the Media Library (the only option) as the recording destination. The screen shown in Figure 24 will appear.

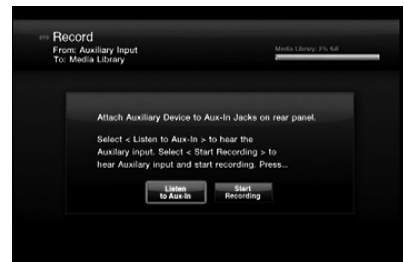


Figure 24 – Record From the Auxiliary Inputs

Select the Listen to Aux In option to monitor the analog device. Begin playing the device, and cue it up to the desired starting point. Example: most cassette tapes include about five seconds of blank leader tape, plus additional blank tape at the beginning. Play until the audio begins so as to minimize the amount of dead air in the recording.

Operation

NOTE: The DMC 1000 does not detect the presence or absence of an audio signal at the Auxiliary Inputs.

When you are ready to begin the recording, select the Start Recording option and begin playback of the analog device. You may experiment by making several recordings and deleting those you don't want.

While the recording is in progress, a screen similar to the one shown in Figure 25 will appear.



Figure 25 – Recording in Progress

Make a note of the file name automatically generated by the DMC 1000 to easily locate the recording later. The DMC 1000 also displays the elapsed time, and a graphic and numeric display of the space available on the hard-disc drive.

Select the Pause Recording option to pause the recording without starting a new file when recording is resumed. This feature is useful if you wish to record a series of audio tracks as one file while skipping breaks in between, such as when recording an entire side of a cassette tape into one file.

Select the Stop Recording option to end recording of the file. The screen shown in Figure 26 will appear.

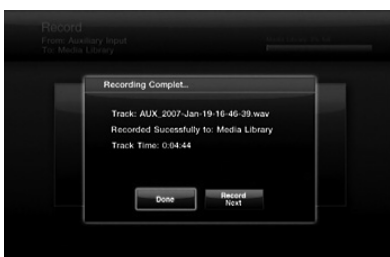


Figure 26 – Recording Complete

Select Done if you are finished, or Record Next to record another track, which returns to the screen shown in Figure 25, allowing you to cue up the next track.

To locate the newly recorded tracks, view the Media Library by Track and by Last Added. The track will be displayed at the top of the list. You may also sort the Track view by Name, looking for tracks starting with "AUX." You may wish to view the Tracks by Artist, as all tracks with artist "Unknown" will be listed first, and the recordings will appear here.

Select the Edit Info option to rename the tracks and add other identifying information. Enter as much information as possible about the track to enable Gracenote MusicID to locate any cover art and properly tag the track. This is particularly useful when you have recorded commercial albums from cassette, vinyl or other analog media.

Media Library

You may transfer audio content from the Media Library to any of the portable media – memory cards installed in the card slots, a USB device connected to one of the USB Ports, or a recordable CD loaded in the Disc Player.

1. Create a playlist of the desired content. The Play Queue may not be used for this purpose.
2. Press the Record Button, or select the Record command from the Main Menu, and select the Media Library as the source, with the other media as the destination.

NOTES:

- When a blank recordable CD has been loaded, you will be presented with the options of recording it as an audio disc or as an MP3 disc. Audio discs conform to the "red book" standard and may be played in any standard CD player. Many CD players are not capable of playing MP3 discs. Check with the manufacturer of the player for more information.
 - Any standard CD-R disc may be used. Special Music/Audio Recordable CDs are not required.
3. The DMC 1000 will display the playlists in the Media Library. Select one or more playlists for recording.
 4. When all selections have been made, select the "Record Selected" option to begin the transfer.

Selections are transferred in the same format in which they are stored in the Media Library. Thus, if your CDs are automatically recorded to the Media Library in the MP3 format, they will be transferred to the portable media as MP3s. Analog audio streams are recorded from the Auxiliary Inputs as lossless WAV files, and are transferred in that format to the portable media.

NOTE: If recordings made from the Auxiliary Analog Audio Inputs were tagged by Gracenote MusicID, the DMC 1000 will generate new file names in the format of [artist] – [three-digit track number].wav. The tags will be transferred to the portable media with the file. Thus, if you upload the file from the media to your PC using software that is capable of recognizing the tags, the track will appear with its correct song title and other information.

Solid-State Media

You may transfer content from any of the solid-state media (memory cards or USB device) to the Media Library in a similar fashion to recording from the Media Library. However, it is not necessary to create a playlist, since the data media are already organized as file folders.

1. Press the Record Button, or select the Record command from the Main Menu, and select the solid-state media as the source, with the Media Library (the only option) as the destination.
2. The DMC 1000 will display the folders and files stored on the media. Select one or more items for recording.
3. When all selections have been made, select the "Record Selected" option to begin the transfer.

NOTE: Content may only be transferred from one of the solid-state media to the Media Library, not from one of the solid-state media to the other. If you wish to transfer content from one type of media to another, first add the content to the Media Library, and then record it to the other type of media.

Operation

Multizone Operation

The DMC 1000 is capable of streaming audio to up to four independent zones simultaneously, allowing users in different areas of the home to enjoy unique programs. The zones may easily be linked or unlinked to each other, to play the same program in more than one zone. Manage the zones by displaying the Main Menu and selecting the Zones command. The screen shown in Figure 27 will appear.

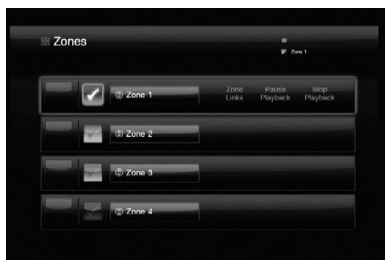


Figure 27 – Zones Menu

Zone 1 is the current zone, as indicated by the checkmark in the box to its left. Each zone is assigned a different color box, indicating none of the zones are linked to other zones.

To rename a zone, highlight the button containing its name and press the Enter Button. Select one of the default names, such as Den or Dining Room, or create a new name. The DMC 1000's character-entry dialog box will appear to guide you. (See Figure 16.)

To link zones together, highlight the line for what will be the "master" zone.

If other zones are linked to the master zone, content playing in the master zone is streamed to any zones linked to it. Select the Zone Links option, and then select one or more of the other three zones to link to the master zone.

To unlink zones, highlight the master zone and select the Zone Links option. Click on a linked zone to select it for unlinking.

To begin playback in any zone, navigate to its line, make sure the colored box to the left of the zone name is highlighted and press the Enter Button. A checkmark will appear in the box. Press the Menu Button to display the Main Menu, and the current zone, along with any other zones linked to it, will be identified in the upper right corner of the video display.

Select content for playback in that zone as usual.

When you return to the Zones menu, the cover art for the current selection, or a generic icon when no cover art was found, appears to the left of the line for each active zone.

Interrupt playback to any zone by navigating to it and selecting the Pause Playback option. The DMC 1000 will remember its location in the current selection when the Play Button is pressed to resume playback. When the Stop Playback option is selected, the DMC 1000 will not remember the location, and when the Play Button is pressed, playback will start from the beginning of the selection.

Troubleshooting Guide

Troubleshooting Guide

Symptom	Possible Cause	Solution
Unit does not turn on	<ul style="list-style-type: none"> No AC power 	<ul style="list-style-type: none"> Check AC power plug and make certain any switched outlet is turned on. Make sure Master Power Switch on rear panel is turned on to the "1" position. If DMC 1000 was in "Full-Off" Power Mode (Power Indicator dim blue), wait for system to reboot.
Disc does not play	<ul style="list-style-type: none"> Disc loaded improperly Incorrect disc type Invalid Region Code Rating is above parental preset 	<ul style="list-style-type: none"> Load disc label-side up; align the disc with the guides and place it in its proper position. Check to see that disc is CD, CD-R, CD-RW, VCD, MP3, WMA, JPEG, DVD-R, DVD-RW, DVD+R, DVD+RW (standard conforming), or DVD-Video; other types will not play. Use Region 2 or Open Region (0) disc only. Enter password to override or change rating settings.
No picture	<ul style="list-style-type: none"> Intermittent connections Wrong input Progressive Scan output selected Video Off feature active HDMI Output A is connected to a video display that is not HDCP-compliant. HDMI communications need to be reset 	<ul style="list-style-type: none"> Check all video connections. Check input selection of TV or receiver. Use Progressive Scan mode only with compatible TV. If needed, press the Progressive Scan/Interlaced Button (22) to toggle to the correct mode. Press Video Off Button (27) to reactivate video circuitry (see page 26) The HDMI Output A may not be used with video displays that are not HDCP-compliant. Unplug the cable and select another audio and video connection (see pages 13 through 14). Turn off all HDMI devices (DMC 1000, receiver, TV). Turn on devices in this order: TV, then receiver, then DMC 1000.
No sound	<ul style="list-style-type: none"> Intermittent connections Incorrect digital audio selection DVD disc is in fast or slow mode Surround receiver not compatible with 96kHz PCM audio Incorrect zone selection Zone not linked to active zone Attempting to use Coaxial or Optical Digital Audio Output with HDMI Output active 	<ul style="list-style-type: none"> Check all audio connections. Check digital audio settings. There is no audio playback on DVD discs during fast or slow modes. Use analog audio outputs. Use the Zones command in the Main Menu to select the desired zone for playback. Use the Zones command in the Main Menu to link or unlink zones to each other. The HDMI and other digital audio outputs are not available at the same time. To use the Coaxial or Optical Digital Audio Outputs, change the HDMI Audio Out setting in the Audio Setup menu to Off.
Picture is distorted or jumps during fast forward or reverse play	<ul style="list-style-type: none"> MPEG-2 decoding DTS decoding 	<ul style="list-style-type: none"> It is a normal artifact of DVD playback for pictures to jump or show some distortion during rapid play. Due to the format of DTS recordings, fast-play may overshoot or undershoot desired place.
Some remote buttons do not operate during DVD play; prohibited symbol (28) appears (see below)	<ul style="list-style-type: none"> Function not permitted at this time 	<ul style="list-style-type: none"> With most discs, some functions are not permitted at certain times (e.g., Track Skip) or at all (e.g., direct audio track selection).
The OSD menu is in a foreign language	<ul style="list-style-type: none"> Incorrect OSD language 	<ul style="list-style-type: none"> Change the display language selection.
The (28) symbol appears	<ul style="list-style-type: none"> Requested function not available at this time 	<ul style="list-style-type: none"> Certain functions may be disabled by the DVD itself during passages of a disc.
Picture is displayed in the wrong aspect ratio	<ul style="list-style-type: none"> Incorrect match of aspect ratio settings to disc 	<ul style="list-style-type: none"> Change aspect ratio settings.
Remote control inoperative	<ul style="list-style-type: none"> Weak batteries Sensor is blocked 	<ul style="list-style-type: none"> Change both batteries. Clear path to sensor or use optional outboard remote sensor.
Disc will not copy to VCR	<ul style="list-style-type: none"> Copy protection 	<ul style="list-style-type: none"> Many DVDs are encoded with copy protection to prevent copying to VCR.
Password not accepted.	<ul style="list-style-type: none"> Incorrect password being used or password has been forgotten. 	<ul style="list-style-type: none"> Factory default password "1234" always remains active.

Screen saver not activated	<ul style="list-style-type: none">• Screen saver will not activate when Setup menus are displayed	<ul style="list-style-type: none">• Clear Setup menus or press Video Off Button to avoid burn-in on plasma and CRT displays.
Cannot program playlist	<ul style="list-style-type: none">• Current source is other than Media Library	<ul style="list-style-type: none">• Playlists may only be programmed from content stored in the Media Library. Transfer the other source's content to the Media Library, view it from within the Media Library and then create a playlist.
Unable to select desired media	<ul style="list-style-type: none">• No media is present• Wrong type of USB drive was inserted in USB Port• Media was not inserted correctly	<ul style="list-style-type: none">• Insert the appropriate memory card into one of the card source slots, or a USB flash drive into the USB Port• Only USB flash drives that do not function as stand alone MP3 players are compatible• Remove media and carefully insert according to the instructions on page 7

Technical Specifications

Applicable Disc:	Disc formats: 5 inch (12 cm) or 3 inch (8 cm) DVD Video, Standard conforming DVD+RW, DVD+R, DVD-R, DVD-RW, VCD, CD, CD-R, MP3, WMA, JPEG or CD-RW discs, Region code: DVD Movie disc with Code 2 or 0 only. DVD-Layers: Single Side/Single Layer, Single Side/Dual Layer, Dual Side/Single Layer, Dual Side/Dual Layer Audio formats: Linear PCM, MPEG, Windows Media® 9, Dolby Digital or DTS Audio discs Still-image format: JPEG
Memory cards	Slot 1: Secure Digital (SD), Multimedia Card (MMC) and Memory Stick (compatible with Magic Gate) cards. Other card types may be used with a compatible adapter, but are not guaranteed to be recognized by the DMC 1000 Slot 2: Compact Flash I (CF) cards, or cards using a Compact Flash 1-compatible adapter Card Capacity: Up to 1 GB
USB Port:	Up to USB 2.0-compatible solid-state flash drives
Video Signal System:	PAL/NTSC
HDMI™ Output:	Video: 576p, 720p, 1080i, 1080p HDMI Version 1.1a-compliant HDCP Version 1.1-compliant
Composite Video Output:	1 V _{p-p} /75 Ohms, sync negative polarity
S Video Output:	Y/Luminance: 1 V _{p-p} /75 Ohms, sync negative polarity C/Chrominance: 0.286 V _{p-p}
Component Video Output:	Y: 1 V _{p-p} /75 Ohms, sync negative polarity Cr: 0.7 V _{p-p} /75 Ohms Cb: 0.7 V _{p-p} /75 Ohms
Analog Audio Output:	2 V _{rms} max
Frequency Response:	DVD (Linear PCM): 2Hz - 22kHz (48kHz sampling) 2Hz - 44kHz (96kHz sampling) CD: 2Hz - 20kHz
Signal/Noise Ratio (SNR):	105 dB (A-weighted)
Dynamic Range:	DVD: 100dB (18 Bit) / 105dB (20 Bit) CD/DVD: 96dB (16 Bit)
THD/1kHz:	DVD/CD: 0.0025 %
Wow & Flutter:	Below Measurable Limits
AC Power:	100 - 240 V/50 ~ 60 Hz
Power Consumption:	12 Watts (Standby)/60 Watts (Max)
Dimensions (WxHxD):	440 x 103 x 405 mm
Weight:	8.7 kg

Depth measurement includes knobs and connectors.

Height measurement includes feet and chassis.

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Appendix

Appendix – Default settings and worksheets

Table A1 – Media Library Setup Menu

Setting	Default	Your Settings
Auto Disc Insert Preferences	Play & Record	
Audio Encoding Quality	MP3 192kbps (Medium)	

Table A2 – DVD Player Setup Menu

Setting	Default	Your Settings
Preferred Subtitle Language	Off	
Preferred Audio Language	English	
Parental Control Level	Off	
Video Presentation Mode	Original	
Dynamic Range Compression	Off	
DVD Bass Management	Off	

Table A3 – Audio Setup Menu

Setting	Default	Your Settings
Speaker Setup	Front L & R: Large Surround L & R: Large Center: Large Subwoofer: Yes	Front L & R: Surround L & R: Center: Subwoofer:
Digital Audio Out Format	Compressed	
HDMI Audio Out	Auto	

Table A4 – Video Setup Menu

Setting	Default	Your Settings
Video Output	Depends on physical connections.	
Output Resolution	Depends on physical connections: Analog (composite or S-video): 480i Analog (component): 480p HDMI: Auto	

Table A5 – General Setup Menu

NOTE: These settings are not adjusted in normal use.

Setting	Purpose	Your Settings
Software Update	If a system software upgrade becomes available in the future, download it to a CD and follow the instructions here.	Not used.
Date & Time	Set system date and time after a reset.	Adjusted only after a reset.
System Information	Displays software version and hard-disc drive usage.	Not used.

Appendix

Table A6 – Advanced Setup Menu

Setting	Purpose	Your Settings
Backup	Backs up hard-disc drive as a precaution.	After your custom installer transfers your music collection to the Media Library, he or she should back it up as a precaution.
Restore	In case the hard-disc drive is replaced, restores the Media Library from the last version that was backed up.	Keep your backup of the Media Library updated.
Reset Factory Defaults	System reset.	Use only as a last resort. Requires reconfiguring all system settings. The Media Library's contents are not affected.
Network	Displays network identification	Ethernet: parameters. IP Address: Subnet Mask: Gateway Address: DNS 1: DNS 2: Proxy Address: Proxy Port Number:
Language Selected	Sets system display language. Default is English.	
Format USB	Reformats a USB device, erasing all content.	Exercise extreme caution before using this command.

Table A7 – Power Modes

Power Mode	Indicator	Functionality	Front-Panel Power Control	Remote Control Power On	Remote Control Power Off
Full-Off Mode	Dim blue	System powered down	System boots and goes to Full-Power Mode	System boots and goes to Full-Power Mode	No action
Sleep Mode	Amber	Standby; unit is ready for quick turn-on	Full-Power Mode	Full-Power Mode	No action
Server Mode	Amber	Remote-zone and network control available; on-screen menus off	Full-Power Mode	Full-Power Mode	Sleep Mode
Full-Power	Bright blue	Operates normally	Single press › Server Mode Press and hold › Full-Off Mode	No action	Single press › Server Mode Press and hold › Full-Off Mode

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library." Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library." The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or

less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the exe-

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